PRICES and CONTRACTING NEWS

Of Special Interest to Engineers, Contractors, Builders and Manufacturers of Engineering and Building Supplies

Price advances are indicated by **heavy type**; declines by *italics*.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Apr. 30, 1917	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$37.90	$32.90	$17.90@18.40
No. 2 Northern foundry	....	37.26	20.26
NEW YORK			
No. 2X Northern foundry	41.50	40.70	20.25@20.75
No. 2 plain Northern foundry	....	39.20	20.25@20.50
No. 2 Southern foundry†	....	34.25	20.25@20.50
BIRMINGHAM			
No. 2 Southern foundry	35.00	30.00	15.00
CHICAGO			
No. 2 Northern foundry	41.00	38.00	19.00
PITTSBURGH			
Bessemer iron*	42.95	38.95	21.95
Basic iron*	40.00	35.00	18.95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered Tidewater, New York.

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh, in effect Apr. 2, 1917:

Butt Weld

Steel Inches	Black	Galvanized	Iron Inches	Black	Galvanized
¾ to 3	55%	41½%	¾ to 1½	44%	28%
Lap Weld					
2	48%	35½%	1¼	29%	14%
2½ to 6	51%	38½%	1½	36%	22%
7 to 12	48%	34½%	2	37%	23%
13 and 14	38½%	....	2½ to 4	39%	26%
15	36%	....	4½ to 6	39%	26%
			7 to 12	38%	25%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	53%	40½%	¾ to 1½	44%	29%
2 to 3	54%	41½%			
Lap Weld, Extra Strong Plain Ends					
2	46%	34½%	1¼	30%	15%
2¼ to 4	49%	37½%	1½	36%	22%
4½ to 6	48%	36½%	2	38%	25%
7 to 8	44%	30½%	2¼ to 4	40%	28%
9 to 12	41%	25½%	4½ to 6	39%	27%
			7 to 8	33%	21%
			9 to 12	28%	16%

From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	44%	48.8%	47.27%
3½ to 6 in. lap welded	36%	44.8%	43.27%
7 to 12 in. lap welded	....	41.8%	40.27%
	Galvanized		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	28%	33.8%	32.27%
3½ to 6 in. lap welded	18%	30.8%	29.27%
7 to 12 in. lap welded	....	26.8%	25.27%

Malleable fittings, Class B and C, from New York stock sell at 5 and 5% from list prices. Cast iron, standard sizes, 34 and 5%.

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

ROLLED FROM BILLTS

		Warehouse					
		New York					
In.	Mill Shipment	Apr. 30, 1917	One Month Ago	St. Louis	Chicago	Dallas	San Francisco
¾ and larger	$3.50	$4.60	$4.45	$3.74	$4.25	$4.75	$4.50
⅞	3.55	4.70	4.55	3.79	4.30	4.80	4.55
½	3.60	4.80	4.65	3.84	4.35	4.85	4.60
⅜	3.75	4.95	4.80	3.99	4.50	5.00	4.75
¼	4.00	5.30	5.15	4.24	4.75	5.25	5.00

ROLLED FROM RAILS

	St. Louis	Dallas		St. Louis	Dallas
¾ and larger	$3.50	$4.50	⅜	$3.75	$4.75
⅝	3.55	4.55	¼	4.50	5.00
½	3.60	4.60			

Rivets—The following quotations are per 100 lb.:

Structural

	Mill, Pittsburgh	Warehouse New York	Chicago	St Louis	San Francisco	Dallas
¾ in. and larger	$4.75	$6.50	$5.00	$5.05	$6.60	$7.50
Cone Head Boiler						
¾ in. and larger	4.85	6.60	5.10	5.15	6.70	7.60
⅞ and 1	5.00	6.75	5.25	5.30	6.85	7.75
1⅛ and 1¼	5.35	7.10	5.60	5.65	7.20	8.10

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Apr. 30, 1917	New York One Mo. Ago
No. 10	5.80	6.30	6.25	7.25	6.80	6.00
No. 12	5.85	6.36	6.30	7.30	6.85	6.05
No. 14	5.90	6.40	6.35	7.35	6.90	6.10
No. 16	...	6.45	6.40	7.40	...	...
Black						
Nos. 18 and 20	6.05	6.15	6.80	7.45	7.30	6.30
Nos. 22 and 24	6.10	6.20	6.85	7.55	7.35	6.35
No. 26	6.15	6.25	6.90	7.65	7.40	6.40
No. 27	6.20	6.30	6.95	7.75	7.45	6.45
No. 28	6.25	6.35	7.00	7.85	7.50	6.50
Galvanized						
No. 10	6.75	Premium	8.20	...	8.45	7.10
No. 12	6.80	Premium	8.20	8.46	8.50	7.15
No. 14	6.85	Premium	8.20	8.46	8.55	7.20
Nos. 18 and 20	7.20	Premium	8.40	8.76	8.85	7.50
Nos. 22 and 24	7.30	Premium	8.55	8.90	9.05	7.70
No. 26	7.45	Premium	8.70	9.05	9.20	7.95
No. 27	7.50	Premium	8.85	9.20	9.35	8.10
No. 28	7.75	Premium	9.00	9.39	9.50	8.25

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c per 100 lb. is charged extra:

	Pittsburgh	Chicago
Standard bessemer rails	$38.00	$38.00
Standard openhearth rails	40.00	40.00
Light rails, 8 to 10 lb.	58.00	58.00
Light rails, 12 to 14 lb.	57.00	57.00
Light rails, 25 to 45 lb.	55.00	55.00

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh	Chicago	St. Louis	San Francisco
Standard railroad spikes	$3.85	$4.10	$4.40	$5.00
Track bolts	5.45	5.60	Premium	6.00
Standard section angle bars	3.50@3.75	3.50	Premium	4.35

Nails—The following quotations are per keg from warehouse:

	New York Apr. 30, 1917	New York One Year Ago	St. Louis	Chicago	Dallas
Wire	$3.85	$2.90	$4.00	$4.00	$3.86
Cut	4.50	2.90	4.00	4.20	....

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	New York Apr. 30, 1917	New York One Yr. Ago	St. Louis	Chicago	San Francisco	Dallas
Beams, 3 to 15 in.	$3.80	$4.75	$3.30	$4.55	$4.75	$6.25	$5.25
Channels, 3 to 15 in.	3.80	4.75	3.30	4.55	4.75	6.25	5.25
Angles, 3 to 6 in., ¼ in. thick	3.80	4.75	3.30	4.55	4.75	6.15	5.25
Tees, 3 in. and larger	3.80	4.80	3.35	4.55	4.80	6.25	5.25
Plates	5.50	6.50	4.25	6.05	6.00	8.50	7.50

New York extras on other shapes and sizes per lb. are as follows:

I-beams over 15 in.	$0.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in., on one or both legs less than ¼ in. thick	.70
Cutting to lengths, under 3 ft. to 2 ft. inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	....

No charge is made for cutting to lengths 3 ft. and over

Wire Rope—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York Apr. 30, 1917	New York One Year Ago	St. Louis	Chicago	Dallas
Galvanized	15-2½%	25-2½%	10-2½%	15-2½%	7½-12½-5%
Bright	25-2½%	35-2½%	20-2½%	25-2½%	17½-12½-5%

Expanded Metal Lath—Prices per 100 yd. for painted are as follows:

Gage	Weight	New York Less Than Carload	New York Carload	Chicago*	St. Louis	San Francisco	Dallas
27	233	$23.94	$24.12	$24.00	$24.00	$24.00	$22.00
26	250	24.97	25.05	25.00	25.00	25.25	....
25	300	26.07	26.16	26.00	....	....	25.00
24	340	27.14	27.25	27.00	27.00	28.00	26.00
22	450	29.33	29.47	29.00	....	....	....

About 10% additional for smaller quantities.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Apr. 30, 1917	One Month Ago	One Year Ago
$3.60@4.00	$3.35	$2.50

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York							
	Apr. 30, 1917	1 Mo. Ago	One Year Ago	Birmingham	Chicago	St. Louis	San Francisco	Dallas
4 in.	$58.50	$50.75	$33.75	$53.00	$58.15	$57.00	$66.00	$62.00
6 in. and over	55.50	47.50	30.75	50.00	55.15	54.00	63.00	49.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	
	Apr. 30, 1917	One Month Ago
Heavy melting steel scrap	$21.50	$23.50@24.50
No. 1 railroad wrought	38.00	31.00@32.00
Stove plate	16.50	16.00@17.00
No. 1 machinery cast	24.50	24.00@25.00
Machine shop turnings	*11.50*	13.00@13.50
Cast borings	13.50	13.50@14.00
Railroad malleable cast	22.50	22.50@23.00

	Chicago	
	Apr. 30, 1917	One Month Ago
No. 1 railroad wrought	$32.00	$27.50@28.00
Stove plate	14.50	12.50@13.00
No. 1 machinery cast	21.50	18.25@18.75
Machine shop turnings	10.50	9.50@10.00
Cast borings	11.00	10.00@10.50
Railroad malcable cast	21.50	18.50@19.00

Triangle Mesh Reinforcement—Price per 100 sq.ft. in carload lots:

Plain 4-in. x 4-in. Mesh.

Style Number	Sectional Area Square Inches per Foot Width	Pittsburgh	New York	Chicago	St. Louis	Dallas
072	0.022	$0.89	$0.92	$0.93	$0.94	$1.06
019	0.049	1.13	1.18	1.18	1.20	1.34
068	0.068	1.42	1.47	1.49	1.50	1.68
093	0.093	1.82	1.89	1.91	1.93	2.17
126	0.126	2.31	2.39	2.42	2.44	2.74
153	0.153	2.75	2.86	2.88	2.91	3.27
180	0.180	3.16	3.27	3.31	3.34	3.76
245	0.245	4.17	4.33	4.36	4.41	4.96
287	0.287	4.82	5.00	5.04	5.10	5.72
336	0.336	5.59	5.80	5.85	5.92	6.66
395	0.395	6.48	6.72	6.78	6.86	7.73

Plain 4-in. x 8-in. Mesh

036P	0.036	.69	.71	.72	.73	.82
053P	0.053	.97	1.01	1.02	1.03	1.16
072P	0.072	1.26	1.30	1.32	1.33	1.50
097P	0.097	1.62	1.68	1.70	1.71	1.93
049R	0.049	.97	1.01	1.02	1.03	1.15
067R	0.067	1.26	1.30	1.32	1.33	1.50
089R	0.089	1.62	1.68	1.70	1.71	1.93

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized runs about 10% higher than plain.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb:

Baltimore	15.4	Minneapolis	32.9
Boston	18.9	New Orleans	30.7
Buffalo	11.6	New York	16.9
Chicago	18.9	Pacific Coast (all rail)	75.0
Cincinnati	15.8	Philadelphia	15.9
Cleveland	10.5	St. Louis	23.6
Denver	68.6	St. Paul	32.9
Kansas City	43.6		

CEMENT, BRICK AND STONE

Paving Stone—

		Apr. 30, 1917
Boston	Granite 5-in.	$2.45 sq.yd.
New York	Manhattan	2.50 sq.yd.
	Other boroughs	2.25 sq.yd.
Chicago	About 4x8x4 dressed	2.15 sq.yd.
	About 4x8x4 common	1.75 sq.yd.
San Francisco	Basalt block 4x7x8	57.75 per M
Kansas City	Limestone	2.00 sq.yd.
Cincinnati	Granite	2.35 sq.yd.
New Orleans	Granite	60.00 per M

Curbing—Prices per linear foot are as follows:

		Apr. 30, 1917
New York	5 x 16	$0.40
	5 x 20	.45
Chicago	6 x 18	.45
St. Louis	5 x 16 square edge	.72
	5 x 16 bull nose	.76
San Francisco	5 x 16	.75
	5 x 20	.85

Flagging—

		Apr. 30, 1917
New York	Bronx	$0.17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens, 5 ft. square	.18 sq.ft.
Chicago	3 in. wide	.60 lin.ft.

Sand and Gravel—Price for cargo or carload lots is as follows, per cu.yd.:

		Gravel				Sand	
		1½ In.		¾ In.			
	Paving	Apr. 30, 1917	One Year Ago	Apr. 30, 1917	One Year Ago	Apr. 30, 1917	One Year Ago
New York	$1.35	$1.25	$0.80	$1.35	$0.85	$0.50	$0.[illegible]
Chicago	1.40	1.40	.95	1.40	.95	1.10	.[illegible]
St. Louis	....	.85	.70	.85	.70	.91	.[illegible]
Dallas	....	1.10	....	....	....	1.30	....
San Francisco	2.00	1.00	1.25	1.00	1.25	1.00	....
Los Angeles	....	.85	....	.85	....	.35	....
Cincinnati*	....	.90	....	.85	....	.85	....
New Orleans	....	1.50	....	2.00	....	1.04	....
Boston	....	1.50	....	1.55	....	.80	....
Kansas City	2.00	2.25	.60	....	....	....	....
Seattle	....	.75	....	.75	....	.75	....
Denver	....	1.00	....	1.00	....	.60	....

*Per ton.

Fine White Sand—St. Louis:

Pacific ..... $4.50 ton Ottawa ..... $5.00 ton

Crushed Stone—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In.		¾ In.	
	Apr. 30, 1917	One Year Ago	Apr. 30, 1917	One Year Ago
New York	$1.10	$0.85	$1.25	$0.95
Chicago	1.40	.95	1.40	.95
St. Louis	1.25	*1.00*	1.25	1.00
Dallas	1.36	....	1.49	....
San Francisco	1.00	1.25	1.00	1.25
Cincinnati	1.00	....	1.00	....
Los Angeles	.95	....	1.00	....
New Orleans	*2.25*	....	4.00	....
Boston	1.25	....	1.25	....
Kansas City	1.25	....	1.35	....
Seattle	1.50	....	1.50	....
Denver	*1.00*	....	*1.00*	....

Rosendale Natural Cement—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York $1.10

30c. allowed for bags.

Portland Cement—These prices are for barrels in carload lots, including bags:

	April 30, 1917	One Month Ago	One Year Ago
New York	$2.40	....	$1.72
Jersey City	2.16	$2.00	1.66
Boston	2.20	2.20	1.87
Chicago	2.16	2.16	1.86
Pittsburgh	2.16	2.16	1.81
Cleveland	2.29	2.29	1.94
Detroit	2.25	2.25	1.95
Indianapolis	2.29	2.29	1.99
Toledo	2.29	2.29	1.94
Milwaukee	2.28	2.28	1.98
Minneapolis	2.48	2.48	2.13
Duluth	2.41	2.41	2.04
Peoria	2.28	2.28	1.94
Cedar Rapids	2.39	2.39	2.05
Davenport	2.34	2.34	1.95
St. Louis	2.30	2.20	1.85
Cincinnati	2.29	2.19	....
San Francisco	2.60	2.60	2.30
Kansas City	2.24	2.24	....
New Orleans	2.47	2.36	....
Houston	....	2.05	....
Los Angeles	2.30	2.30	....
Seattle	2.50	2.50	....
Denver	2.89	2.89	....

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common			Paving	
	Apr. 30, 1917	One Year Ago	One Month Ago	Brick	Block
New York	$11.50	$7.25	$9.50	....	....
Chicago	6.00	6.25	6.00	$16.00	$24.00
St. Louis, salmon	7.00	6.00	7.00	....	18.00
St. Louis, selected red	10.00	9.50	....	....	....
Dallas	8.10	....	....	....	....
San Francisco	10.00	9.00	10.00	....	30.00
Seattle	7.00	....	7.00	....	28.75
New Orleans	7.75	....	7.50	....	27.00
Kansas City	10.00	....	9.50	....	20.00
Los Angeles	7.50	....	5.75	....	25.00
Boston	12.50	....	12.50	....	24.00
Denver	8.00	....	7.50	....	....
Cincinnati	12.50	....	9.00	....	23.50

Lime—The following prices per ton prevail at warehouse in cities named:

	Hydrated	Common
New York	$16.50	$13.25
St. Louis	11.25	10.00
Chicago	15.00	12.00
Dallas	18.50	13.50

MISCELLANEOUS

Manila Rope—Price in coils per lb. in cities named, ¾ to 1½ in.:

Boston	$0.27	Los Angeles	$0.26½
Cincinnati	.27	San Francisco	.25
Kansas City	.26½	Seattle	.26½
New Orleans	.26	Denver	.28
Chicago	.25½		

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8 Ft.
New York	Yellow Pine	$1.15@1.20	$1.06@1.11
St. Louis	White Oak	.72	.61
Chicago	White Oak	.95	.85

Sewer Pipe—The following prices are in cents per foot for carload lots:

Size, In.	New York Apr. 30, 1917	New York One Year Ago	St. Louis	Chicago	Dallas
3	.087	.0675	...	.075	.0888
4	.087	.0675	...	.075	.0888
5	.1305	.108	...	.12	.1332
6	.1305	.108	.11	.12	.1332
8	.203	.1485	.15	.175	.1975
10	.3045	.2160	.21	.2625	.2765
12	.3915	.27	.30	.3375	.3555
15	.522	.3645	.45	.45	.5135
18	.725	.516	.68	.625	.6715
20	.87	.6075	.86	.75	.79
22	1.16	.81	1.03	1.00	1.027
24	1.305	.8775	1.15	1.125	1.185
27	1.95	1.58	1.30	.....	.....
30	2.16	1.93	1.70	.....	.....
33	2.88	2.50	2.25	.....	.....
36	3.28	2.80	2.50	.....	.....

Size, In.	Seattle	New Orleans	Kansas City	Cincinnati	Denver	Los Angeles	Boston
3	.075	.041	.08	.081	.075	.055	.096
5	....	.0641	.11	.1215	.10	.09	.144
8	.225	.120	.15	.189	.225	.16	.224
12	.413	.226	.27	.3645	.375	.265	.432
24	1.75	.8961	.15	1.44	1.25	1.00	1.44
36	....	....	2.40	3.69	2.50	....	3.5875

Clay Drain Tile—The following prices are per 1,000 lin ft.:

	St. Louis	Chicago	Dallas
3	$18.40	$15.00	$19.80
4	20.70	18.00	28.10
5	28.75	23.00	....
6	40.25	27.00	45.95
8	74.75	55.00	82.75

Hollow Tile—Hollow building tile price per block:

	New York	Chicago	St. Louis	San Francisco	Dallas
4x12x12	$0.0925	$0.0685	$0.054	$0.07	$0.07
6x12x12	.1295	.1027	.066	.095	.09
8x12x12	.15725	.1186	.09	.12	.12
10x12x12	.185	.1369	.15	.18	.15
12x12x12	.23125	.1779	.18	.20	.18

Above prices are for carload lots or more.

	Seattle	New Orleans	Kansas City	Cincinnati	Los Angeles	Boston
4x12x12	.055	.087	.0489	.0628	.04	.08
8x12x12	.095	.139	.0938	.1175	.075	.13
12x12x12	.15	.184	.131	.159	...	.185

Explosives—Price per pound at cities named:

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%
New York	...	$0.21¾	$0.27¾	....
Boston	$0.17	.19½	.23½	$0.32½*
Cincinnati	.15¾	.18¼	.22¼	.33¼
Kansas City	.16	.21	.27	.33½
Phœnix	.15	.20	.26	.32½
New Orleans	.17½	.19¾	.23¾	....
Los Angeles	.17¾	.20½	.26½	....
San Francisco	.12¼	.17¼	.23¼	.30¼
Seattle	.11¼	.17	.23	.30
Chicago	.14½	.19	.25	.32

*75%.

Road Oils—Following are prices in tank cars 8000 gal. minimum f.o.b. place named:

New York, 40-50% asphalt	6⅛c. gal.
New York, 60-70% asphalt	6¼c. gal.
New York, dust layer, 30%	6½c. gal.
New York, binder	7½c. gal.
St. Louis, 60-80% asphalt	5c. gal.
Chicago, 15-20% asphalt	6½c. gal.
Dallas, 40-50% asphalt	5c. gal.
Dallas, 60-70% asphalt	6c. gal.
San Francisco, 75-95% asphalt, 42-gal. bbl.	$1.83 bbl

Wood Block Paving—

New York—3½ in. block 16 lb. treatment	$2.00 sq.yd.
New York—4 in. block 16 lb. treatment	2.25 sq.yd.
Chicago—4 in. block 16 lb. treatment	1.75 sq.yd.
Chicago—City specifications	2.05 sq.yd.
St. Louis—3½ in. block 16 lb. treatment	1.60 sq.yd.
New Orleans—3½ in. block 16 lb. treatment	1.50 sq.yd.
New Orleans—4 in. block 16 lb. treatment	1.71 sq.yd.
Seattle—4 in. block 16 lb. treatment	1.40 sq.yd.
Boston—4 in. block 20 lb. treatment	1.92 sq.yd.
Cincinnati—4 in. block 16 lb. treatment	1.75 sq.yd.
Denver—4 in. block 12 lb. treatment	1.86 sq.yd.
Kansas City—4 in. block 16 lb. treatment	1.75 sq.yd.

Linseed Oil—These prices are per gallon:

	New York Apr. 27, 1917	New York Six Months Ago	Cleveland Apr. 27, 1917	Cleveland Six Months Ago	Chicago Apr. 27, 1917	Chicago Six Months Ago
Raw in barrels	$1.21	$0.81	$1.25	$0.97	$1.20	$0.92
5-gal. cans	1.31	.91	1.35	1.07	1.30	1.02

Boiled, 1c. per gal. additional.

White and Red Lead, in cents per pound, sell as follows:

	Red Apr. 27, 1917 Dry	Red Apr. 27, 1917 In Oil	Red 6 Months Ago Dry	Red 6 Months Ago In Oil	White Apr. 27, 1917 Dry and In Oil	White 6 Months Ago Dry and In Oil
100-lb. keg	11.25	11.50	10.50	11.00	11.00	10.50
25- and 50-lb. kegs	11.50	11.75	10.75	11.25	11.25	10.75
12½-lb. keg	11.75	12.00	11.00	11.50	11.50	11.00
1- to 5-lb. cans	13.25	13.50	12.50	12.50	13.00	12.50

Asphaltum—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	$25.00	....
New York	Mexican	19.00	$11.00
Chicago	Mexican	22.00	18.00
St. Louis	Mexican	22.50	19.50
San Francisco	California	14.50	12.00
Dallas	Texaco and Mexican	19.00	....
Kansas City	Texaco	18.00	....
Denver	California	27.00	....
Denver	Trinidad	45.00	....

Poles—The price on Western red cedar poles:

	Apr. 30, 1917	One Year Ago	Chicago	St. Louis	Denver
6 in. by 30 ft.	$5.24	$4.77	$4.59	$4.59	$3.97
7 in. by 30 ft.	6.90	5.90	6.10	6.10	8.60
7 in. by 35 ft.	9.70	7.85	8.60	8.60	7.55
8 in. by 35 ft.	11.20	9.75	9.90	9.90	8.65
7 in. by 40 ft.	11.35	9.95	10.00	10.00	8.75
8 in. by 40 ft.	12.75	....	11.15	11.15	9.65
8 in. by 45 ft.	15.70	14.45	13.70	13.70	11.80
8 in. by 50 ft.	18.35	16.85	15.95	15.95	13.65

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Timbers 5 x 5

	Southern Pine New York 20 Ft. and Under	Southern Pine New York 22-24 Ft.	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
5x 4 to 8x 8	$30.75	$31.75	$28.75	$29.75	$23.00	$24.00
3x10 to 10x10	31.75	32.75	29.75	30.75	24.00	25.00
3x12 to 12x12	34.75	35.75	32.75	33.75	25.50	26.50
3x14 to 14x14	36.75	37.75	34.75	35.75	27.00	28.00
3x16 to 16x16	39.75	40.75	37.75	38.75	39.00	30.00
3x18 to 18x18	43.75	44.75	41.75	42.75	31.00	32.00
4x20 to 20x20	48.75	49.75	46.75	47.75	35.00	36.00

Over 32 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Yellow Pine—Dallas. Price per M:

No. 1 Common		No. 1 Common	
2x 4—12 ft. to 24 ft.	$30.00	4x4, 4x6, 6x6	$30.00
2x 6—10 ft. to 24 ft.	30.00	3x8, 6x8, 8x8	32.50
2x 8—12 ft. to 24 ft.	30.00	3x10, 8x10, 10x10	35.00
2x10—12 ft. to 24 ft.	30.00	3x12, 12x12	37.50
2x12—12 ft. to 24 ft.	30.00		

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$16.00	$17.50	$19.00
3 and 4x6 and 8	16.00	16.50	17.50
6x6 to 8x8	16.50	17.50	17.50
3 and 4x10	16.00	17.50	18.50
6 and 8x10	17.00	18.00	18.00
10x10	17.00	17.00	19.00
3 and 4x12	16.00	17.50	18.50
6 and 8x12	17.50	18.50	18.50
10 and 12x12	17.00	17.00	19.00
3 and 4x14	17.00	19.00	20.00
6 and 8x14	18.50	19.50	19.50
7 and 9x14	19.50	20.50	20.50
10 and 12x14	18.00	18.00	20.00

	1-In. Rough, 10 In. x 16 Ft. and Under Y.P.	1-In. Rough, 10 In. x 16 Ft. and Under Fir	1-In. Rough, 10 In. x 16 Ft. and Under Hemlock	2-In. T. and G., Dressed and Matched (10 in. x 16 Ft.) Y.P.	2-In. T. and G., Dressed and Matched (10 in. x 16 Ft.) Fir
Boston	$65.00	$46.00	....	$34.00	$40.00
Cincinnati	35.00	....	....	36.50	....
Kansas City	47.25	40.50	39.50	44.75	....
Denver	....	23.00	23.00	....	23.00
Seattle	17.00	17.00	17.00	17.00	17.00
Los Angeles	23.00	23.00	20.00	23.00	23.00
New Orleans†	35.00	30.00	....	40.00	33.00
Chicago	27.00	....	23.00	25.00	....
San Francisco	....	16.00	16.00	....	16.00

	8 x 8-In. x 20 Ft. and Under Y.P.	8 x 8-In. x 20 Ft. and Under Fir	8 x 8-In. x 20 Ft. and Under Hemlock	8 x 8-In. x 20 Ft. and Under Spruce	12 x 12-In., 20 Ft. and Under Y.P.	12 x 12-In., 20 Ft. and Under Fir
Boston*	$39.00	$40.00	....	$37.00	$46.00	$41.50
Cincinnati	30.00	....	....	....	33.00	....
Kansas City	35.00	31.00	31.00	....	39.50	31.00
Denver	....	26.00	26.00	....	....	28.00
Seattle	17.00	17.00	17.00	17.00	17.00	17.00
Los Angeles	....	23.00	20.00	....	23.00	23.00
New Orleans†	40.00	35.00	....	....	40.00	40.00
Chicago	27.50	34.00	25.00	....	31.00	34.00
San Francisco	....	16.00	16.00	....	....	16.00

†Cypress available instead of fir.

Old Metals—The following are the dealers' purchasing prices in cents per pound:

	New York Apr. 27, 1917	New York One Year Ago	Cleveland Apr. 27, 1917	Cleveland Six Months Ago
Copper, heavy and crucible	26.75	25.00	27.00	25.00
Copper, heavy and wire	26.50	24.50	26.00	24.00
Copper, light and bottoms	23.00	22.00	24.00	24.00
Lead, heavy	7.75	6.00	7.75	7.00
Lead, tea	7.25	5.50	5.75	6.00
Brass, heavy	16.25	14.50	17.00	20.00
Brass, light	12.50	12.00	13.00	13.00
No. 1 yellow rod brass turnings	18.50	15.25	17.00	14.50
Zinc	7.00	13.00	7.00	16.00

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Proposals

For Proposals Advertised See Pages 59 to 66 Inclusive

WATER-WORKS

Bids Close.		See Eng. News-Record
May 5.	Martins Ferry, O.	Apr. 26
May 5.	Toronto, Ont.	May 3
May 7.	Bloomfield, N. J.	Apr. 26
May 7.	Plainfield, N. J. Adv. Apr. 26.	Apr. 26
May 7.	Reedsburg, Wis.	Apr. 26
May 7.	Jacksonville, Fla.	May 3
May 8.	East Palestine, O.	May 3
May 7.	La Moure, N. D.	May 3
May 8.	New York, N. Y.	May 3
May 9.	Cortland, N. Y. Adv. Apr. 26 and May 3.	Apr. 26
May 10.	Tennille, Ga. Adv. Apr. 19 to May 3.	Apr. 26
May 14.	Milton, Ia.	May 3
May 14.	Ogdensburg, N. J. Adv. Apr. 26, May 3.	May 3

SEWERS

May 5.	Grosse Pointe, Ill.	May 3
May 7.	White Plains, N. Y.	Apr. 19
May 7.	Huron, S. D.	Apr. 26
May 7.	West Lake, O.	Apr. 26
May 7.	Everett, Wash.	Apr. 26
May 7.	Yonkers, N. Y.	May 3
May 8.	Philadelphia, Pa.	May 3
May 9.	La Grange, Tex.	May 3
May 10.	Winnetka, Ill.	May 3
May 10.	Tennille, Ga.	Apr. 26
May 14.	Lewisville, O.	Apr. 26
May 16.	Brooklyn, N. Y.	May 3
May 23.	Mt. Rainier, Md.	May 3
May 25.	Lakewood, O. Adv. Apr. 19.	Apr. 19

STRUCTURAL STEEL WORK

May 5.	Toms River, N. J.	May 3
May 7.	Rio Vista, Cal.	Apr. 26
May 7.	Norristown, Pa. Adv. Apr. 26.	Apr. 26
May 7.	Indiana	Apr. 26
May 7.	New York, N. Y.	May 3
May 7.	New Brunswick, N. J.	May 3
May 7.	New York, N. Y.	Apr. 19
May 7.	Morristown, N. J.	May 3
May 7.	Meadville, Pa.	May 3
May 8.	Harrisburg, Pa.	May 3
May 8.	Yazoo City, Miss.	Apr. 26
May 8.	Cleveland, O.	May 3
May 8.	Pennsylvania	May 3
May 9.	Illinois	May 3
May 10.	Huntington, W. Va.	Apr. 19
May 10.	Wahpeton, N. D.	Apr. 19
May 10.	Port Angeles, Wash.	Apr. 26
May 10.	Brooklyn, N. Y.	May 3
May 11.	Elizabeth, N. J.	May 3
May 15.	Eureka, Cal.	Apr. 26
May 16.	New Castle, Pa. Adv. May 3.	May 3
May 20.	Des Moines, Ia.	May 3
May 28.	Clifton, Ariz.	May 3

REINFORCED CONCRETE

May 5.	Bethany, W. Va.	Apr. 19
May 7.	Merced, Cal.	Apr. 19
May 7.	Logan, W. Va.	Apr. 19
May 7.	Muscatine, Ia.	Apr. 26
May 7.	Sharon Springs, Kan.	Apr. 26
May 7.	Meridian, Miss.	Apr. 26
May 7.	Bradentown, Fla.	Apr. 26
May 7.	Youngstown, O.	May 3
May 7.	Linton, N. D.	May 3
May 8.	Visalia, Cal.	Apr. 19
May 8.	Nelson, Neb.	May 3
May 8.	Trenton, N. J.	May 3
May 7.	Albany, N. Y.	May 3
May 10.	Cincinnati, O.	May 3
May 11.	Portland, Ore.	May 3
May 12.	Richmond, Ind. Adv. Apr. 19 to May 3.	Apr. 26
May 12.	Louisa, Va.	May 3
May 14	California	May 3
May 15.	Hazard, Ky.	Apr. 12
May 15.	Listowell, Ont.	May 3
May 16.	Paterson, N. J. Adv. May 3.	May 3
May 21.	San Jose, Cal.	May 3

STREETS AND ROADS

May 5.	Coquille, Ore.	Apr. 26
May 7.	Fayetteville, W. Va. Adv. Apr. 12	Apr. 19
May 7.	Mountain City, Tenn.	Apr. 19
May 7.	Indiana	Apr. 19
May 7.	Bakersfield, Cal.	Apr. 26
May 7.	Morgantown, W. Va.	Apr. 26
May 7.	Spearfish, S. D.	Apr. 26
May 7.	Brookhaven, Miss.	Apr. 26
May 7.	Holbrook, Ore.	Apr. 26
May 7.	Indiana	Apr. 26
May 7.	Northampton Heights, Pa. Adv. Apr. 19 and 26.	Apr. 26
May 7.	Tavares, Fla.	May 3
May 7.	Perth Amboy, N. J.	May 3
May 7.	Ypsilanti, Mich.	May 3
May 7	Newark, N. J.	May 3
May 7.	Elizabeth, N. J.	May 3
May 7.	Madison, Wis.	May 3
May 7.	Lisbon, N. J.	May 3
May 7	St. Milachie D. Ormstown, Que.	May 3
May 8.	Vincennes, Ind. Adv. Apr. 19 and 26.	Apr. 19
May 8.	Wenatchie, Wash.	Apr. 19
May 8.	Bloomfield, Ind.	Apr. 19
May 8.	Roxboro, N. C.	Apr. 19
May 8.	Pickens, S. C.	Apr. 19
May 8.	Port Orchard, Wash.	Apr. 26
May 8.	Shelton, Wash.	Apr. 26
May 8.	Bound Brook, N. J. Adv. Apr. 26 and May 3.	Apr. 26
May 8.	Indiana	Apr. 26
May 8.	South Bend, Wash.	May 3
May 8.	Hartford, Conn	May 3
May 8.	Bayonne, N. J.	May 3
May 9.	Indiana	Apr. 26
May 9.	Albion, Mich. Adv. Apr. 26 and May 3.	Apr. 26
May 9.	Indianola, Ill.	May 3
May 9.	Mays Landing, N. J.	May 3
May 9.	Providence, R. I.	May 3
May 9.	Jersey City, N. J.	May 3
May 9.	Illinois	May 3
May 9.	New Orleans, La.	May 3
May 9.	New York, N. Y.	May 3
May 9.	Jersey City, N. J.	May 3
May 9.	Providence, R. I.	May 3
May 9.	Hackensack, N. J.	May 3
May 10.	Texarkana, Ark. Adv. Apr. 26 and May 3.	Apr. 26
May 10.	Indiana	Apr. 26
May 10.	Augusta, Ga. Adv. Apr. 19 and 26.	Apr. 26
May 10.	Newark, N. J.	May 3
May 10.	Beaufort, S. C.	May 3
May 11.	Elizabeth, N. J.	May 3
May 11.	Trenton, N. J.	May 3
May 11.	Bluefield, W. Va.	May 3
May 11.	Roselle, N. J.	May 3
May 11.	Bryan, O.	May 3
May 12.	Indiana	Apr. 26
May 12.	Quincy, Ill.	May 3
May 14.	Olean, N. Y. Adv. Apr. 26.	Apr. 26
May 14.	Indiana	Apr. 26
May 14.	Oil City, Pa. Adv. Apr. 19 to May 3.	Apr. 19
May 14.	Eutaw, Ala. Adv. Apr. 26.	Apr. 26
May 14.	Bangor, Me.	Apr. 26
May 14.	Watervliet, N. Y. Adv. Apr. 26 and May 3.	Apr. 26
May 14.	Olympia, Wash.	May 3
May 14.	Kalamazoo, Mich. Adv. May 3.	May 3
May 14.	Palisade Park, N. J.	May 3
May 15.	Michigan City, Ind	May 3
May 15.	Baltimore, Md. Adv. May 3.	May 3
May 16.	Eldon, Ia.	May 3
May 16.	Paterson, N. J.	May 3
May 16.	Foster, R. I. Adv. May 3.	May 3
May 17.	Jersey City, N. J.	May 3
May 17.	Pocatello, Idaho	May 3
May 18.	Summer, Miss. Adv. May 3.	May 3
May 22.	Newark, O.	Apr. 26
May 24.	Wellsburg, W. Va.	May 3
May 26.	Alexandria, La.	May 3
May 28.	Bartow, Fla.	May 3
May 29.	Port Clinton, O.	May 3
May 30.	Lenoir, N. C. Adv. Apr. 26.	Apr. 26

EXCAVATION AND DREDGING

May 10.	Ft Dodge, Ia.	May 3
May 11.	Algona, Ia.	May 3
May 12.	Owatonna, Minn.	May 3
May 15.	Trenton, N. J. Adv. Apr. 19 to May 3.	Apr. 19
May 15.	Cape Girardeau, Mo	May 3
May 15.	Muscatine, Ia.	May 3
May 16.	Vale, Ore.	Apr. 26
May 31.	Schuyler, Neb.	Apr. 26
May 29.	Albany, N. Y. Adv. May 3.	May 3

BUILDINGS

May 5.	Lewistown, O.	May 3
May 7.	New York, N. Y.	May 3
May 8.	Akron, O.	May 3
May 10.	Kingman, Kan.	Apr. 26
May 10.	Sioux City, Ia.	May 3
May 11.	Gallon, O.	Apr. 26
May 11.	Portsmouth, O	May 3
May 14	Asbury Park, N. J.	Apr. 26
May 14.	Paterson, N. J.	May
May 15.	Fulton, Mo.	Apr.
May 15.	Kansas City, Mo.	Apr.
May 15.	Buffalo, N. Y.	May
May 16.	Amsterdam, N. Y.	May
May 19.	Hartford, Conn.	May
May 21.	Newark, N. J.	May
May 22.	Lake Andes, S. D.	May
May 24.	Tulsa, Okla.	May
May 26.	Columbus, O. C.	Apr.
May 30.	Urbana, Ill. Adv. Apr. 26.	Apr.

FEDERAL GOVERNMENT

May 7.	New Orleans, La.	May
May 7.	Ft. Mifflin, Pa., (Phila. P. O.)	May
May 7.	Washington, D. C.	May
May 10.	Port Huron, Mich.	May
May 14.	St. Louis, Mo.	May
May 23.	New Orleans, La. Adv. May 3.	May
May 24.	Washington, D. C.	May
May 31.	Bemidji, Minn.	May
May 31.	Durant, Okla.	May
May 7.	Beaver Dam, Wis.	Apr.
May 7.	Pearl Harbor, Hawaii	Apr.
May 7.	Ft. Caswell, N. C. Adv. Apr. 12 to 26.	Apr.
May 7.	Ft. Mifflin, Pa.	Apr.
May 7.	New Orleans, La.	Apr.
May 7.	Cape Henry, Va. Adv. Apr. 19 and 26.	Apr.
May 7.	Pensacola, Fla.	Apr.
May 7.	Indian Head, Md.	Apr.
May 7.	Duluth, Minn. Adv. Apr. 26 and May 3.	Apr.
May 8.	New York, N. Y. Adv. Apr. 26 and May 3.	Apr.
May 8.	Media, Pa.	Apr.
May 9.	Kansas City, Mo. Adv. Apr. 26 and May 3.	Apr.
May 9.	San Pedro, Cal.	Apr.
May 9.	Washington, D. C. Adv. Apr. 26.	Apr.
May 10.	Detroit, Mich. Adv. Apr. 19 to May 3.	Apr.
May 10.	Nogales, Ariz.	Apr.
May 11.	Boise, Idaho	Apr.
May 11.	Cleveland, O. Adv. Apr. 19 to May 3.	Apr.
May 12.	Ft. Benj. Harrison, Ind. Adv. Apr. 19 and 26.	Apr.
May 14.	Baltimore, Md. Adv. Apr. 12 to May 3.	Apr.
May 14.	Key West, Fla. Adv. Apr. 26.	Apr.
May 14.	Vallejo, Cal.	Apr.
May 14.	New Orleans, La.	Apr.
May 15.	Bolinas, Cal. Adv. Apr. 5.	Apr.
May 16.	Fitzgerald, Ga. Adv. Apr. 12.	Apr.
May 16.	Athens, Tenn. Adv. Apr. 12.	Apr.
May 17.	Sault Ste. Marie, Mich. Adv. Apr. 19 to May 3.	Apr.
May 17.	Cedar Falls, Ia.	Apr.
May 18.	Santa Fe, N. M.	Apr.
May 18.	El Paso, Tex.	Apr.
May 19.	Washington, D. C. Adv. Apr. 26.	Apr.
May 21.	Vallejo, Cal.	Apr.
May 21.	Cleveland, O. Adv. Apr. 19 to May 3.	Apr.
May 21.	Wilmington, Del. Adv. Apr. 12 to May 3.	Apr.
May 21.	Kansas City, Mo. Adv. Apr. 26 and May 3.	Apr.
May 23.	Garfield, N. M. Adv. Apr. 26.	Apr.
May 23.	Montgomery, Ala. Adv. Apr. 26 and May 3.	Apr.
May 24.	Indiana, Pa.	Apr.
May 25.	Washington, C. H. O.	Apr.
May 28.	Jasper, Ala. Adv. Apr. 19 and 26.	Apr.
May 29.	Southbridge, Mass. Adv. Apr. 19 and 26.	Apr.
May 29.	Berwick, Pa. Adv. Apr. 26 and May 3.	Apr.
May 30.	Ft. Michie, N. Y. Adv. Apr. 26 and May 3.	Apr.
June 5.	Olney, Ill.	May
June 6.	Orange, Tex	May
June 7.	Marion, Ill	May

MISCELLANEOUS

May 7.	Levee—Pine Bluff, Ark.	Apr.
May 8.	Incinerator. New Brunswick, N. J.	Apr.
May 9.	Ballast. New York, N. Y.	Apr.
May 17.	Turbine & Generator. Rockport, Ill.	Apr.
June 1.	Wharf—Richmond, Va.	Apr.
May 11.	Park Work, Philadelphia, Pa	May
May 16.	Station Finish, Brooklyn, N. Y.	May
May 18.	Heating Work, Hudson, N. Y. Adv. May 3	May
May 18.	Heating Work, Newark, N. Y. Adv. May 3.	May
May 18.	Retaining Wall, Cincinnati, O.	May

WATER-WORKS

Proposed Work

Mass., Boston—City preparing plans 1-story, 1500-ft high-pressure pumping station, Commercial St. and Copp's Hill Terrace and will lay 1-mi. high-pressure pipe. G. F. Finneran, supt.

Conn., Hartford—Bd. Water Comrs. will soon let contracts laying about 28,000 ft. 42-, 36-, 30- and 24-in. pipe.

N. J., Newark—North Jersey Dist. Water Supply Comn., plans developing and extending Wanaque watershed. Estimate $8,560,000. M. R. Sherrerd, cons. engr.

Pa., Mohnton—Mohnville Water Co. will soon let contract for filtration plant, slow sand 500,000 gal. capacity. Cost $40,000. W. H. Dechart & Son, 529 Court St., Reading, cons. engr.

S. C., Lake City—See "Sewers."

Fla., Branford—City considering installation of water-works system.

Fla., New Smyrna—City voted $10,000 bonds for water-works. H. E. Zippers, mayor.

Fla., Perry—See "Sewers."

La., Bossier City—City voted $30,000 bonds for water-works system.

Tenn., Knoxville—City Comn. to call election July 5 to vote on issuing $600,000 bonds for water streets and sewer extensions in new territory, $100,000 for improvements in 4 former suburban municipalities and $100,000 for Knoxville general hospital.

Tenn., Manchester—City plans to issue $27,000 bonds for water-works.

O., Akron—City to hold election soon to vote on bonds to build new pumping plant to enable plant at Kent to increase capacity from 20,000,000 to 30,000,000 gal. Cost, $2,000,000. H. Frost, supt.

O., Cincinnati—Chillicothe Water Co. plans large tower on Carlisle Hill.

Kan., Mankato—City plans water-works improvements. Cost, $30,000. G. P. Taylor, Stockton, engr.

N. D., Cooperstown—City rejected bids for 15,000 ft. 8- and 12-in. mains. Work postponed indefinitely. G. B. Edmonson, city aud.

Mont., Livingston—Council authorized to issue $225,000 bonds for water-works. E. C. Riss, city engr.

Mo., Fredericktown—City plans to install water-works. Cost, $60,000.

Ark., Piggett—City plans to install water-works system. Cost, $40,000. A. C. Moore, Joplin, Mo., engr. J. M. Meyers, comr.

Tex., Austin—City voted $600,000 bonds for water improvements. E. C. Bartholomew, supt.

Tex., Celina—Reported city plans to rebuild water-works and electric-light plant recently destroyed by fire; loss, $20,000.

Tex., Cooper—City will soon let contract for water-works. Cost, $50,000.

Okla., Ada—(Official)—City plans election to vote on $60,000 bonds to improve water supply and system, including new rein.-con. flume for water-power plant and 500,000-gal. elevated tank. Benham Engr. Co., Colcord Bldg., Oklahoma, engr.

Okla., Oklahoma—City soon lets contract for clear well at pumping station. About $75,000. C. E. Semmelback, clk.

Okla., Tahlequah—City soon lets contract for water-works improvements. Cost, $30,000. E. B. Murray, 920 Walnut St., Kansas City, Mo., engr.

Okla., Woodsville—City plans to issue $15,000 bonds for water-works.

Ore., Richland—City voted $20,000 bonds for water-works system. Contracts will soon be let.

Cal., Los Banos—City plans to install water-works system. Cost, $30,000. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

Bids Desired

N. Y., New York—Until May 8 by W. Williams, comr. water supply, gas and electricity, Municipal Bldg., furnishing and delivering chloride of lime and chlorine gas, Manhattan and Bronx boros.

N. Y., New York—Until May 9 by M. M. Marks, boro. pres., alteration of receiving basins with inlets at northwest and southwest corners of 59th St. and 1st Ave., 1st and 2nd Ave. and 86th St., 63rd St. from Park to 5th Ave. and 149th St. from St. Nicholas Ave. to Bway.

N. J., Ogdensburg—(Official)—Until May 14 by W. N. Harris, boro. clk., installing water-works; advertised in this issue.

Md., Mt. Rainier—See "Sewers."

O., Cincinnati—Until May 7 by W. L. Taylor, city aud., for purchase of $990,000 bonds for water and light extensions.

O., East Palestine—Until May 8 by O. L. Butts, village clk., for purchase of $20,000 bonds for water-works improvements.

Ia., Milton—Until May 14 by J. C. Forbes, mayor, for water-works. Cost, $18,000.

Minn., Staples—See "Reinforced Concrete."

N. D., La Moure—Until May 7 by B. W. Loppnow, city aud., for constructing water-works system.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Mass., Spencer**—City let contract laying 2 sections water mains to D. D. Pietro, Boston, $26,725.

★**N. Y., Batavia**—City let contract filtration plant and power house to H. H. Edgerton, Bldrs. Exchange Rochester, $25,000.

N. Y., Lockport—Bd. Supervs. received low bid pipe line about 1 mi. long, from Queen City Constr. Co., Buffalo, $11,349.

N. Y., New York—(Official)—Dept. Water Supply, Gas & Electricity received low bids furnishing, delivering, unloading stacking and storing special castings, valves, boxes, etc., from J. Fox & Co., 253 Broadway, $23,460.

O., Mansfield—City received low bids installing pumps in main pumping station from Skeldon Engr. Co., 125 Ames Ave., Toledo, incomplete, $20,228. Luitweiler Pump Co., Rochester, $20,665, Dravo-Doyle Co., 927 Citizens Bldg., Cleveland, incomplete, $28,680.

★**O., New London**—City let contract to H. Martin, 155 Richardson Ave., Columbus, laying 4.6 mi. c.-i. pipe, National Co., South Bend, Ind., 2.4 mi. 8-in. wood pipe, 29c. per ft.; Michigan Pipe Co., Bay City, wood pipe, 70c. per ft.

★**Mich., Detroit**—(Official)—Bd. Water Comrs. let contract furnishing 25,400 meters of various sizes to Gamon Meter Co., 282 South St., Newark, N. J., $209,880.

★**N. D., Cooperstown**—City let contract installing water-works at $58,500, and sewers at $26,361 to Scruth & Jackson, Fargo.

★**N. D., Jamestown**—See "Sewers."

★**Ark., Walnut Ridge**—City let contract water and sewerage system to Moreno-Burkham Constr. Co., Syndicate Terminal Bldg., St. Louis, $75,000.

★**Tex., Higgins**—City let contract water system to Merkle-Hines Machinery Co., 508 Interstate Bldg., Kansas City, Mo., $23,475.

Okla., Oklahoma—City Comrs. received low bids for clear storage basin at water pumping station as follows: Holmboe Constr. Co., 311-15 Majestic Bldg., $59,900; Bent Bros., 607 South Main St., Los Angeles, $93,500; Smedley Constr. Co., Oklahoma, $78,100.

★**Utah, Salt Lake City**—City let contract water main extensions to J. P. Moran Co., 152 W. 2d St., $91,613.

★**Wash., Spokane**—City let contract 5000 Worthington water meters to Coast Pump and Machinery Co., L. C. Smith Bldg., Seattle, $42,500.

★**Que., Three Rivers**—City made plans and will install new water-works to include aqueduct system, driving of artesian wells and concrete reservoir. Work to be done by day labor.

SEWERS

Proposed Work

N. Y., Le Roy—City plans to install sewer system. Cost $218,000. J. P. Wells, engr.

Pa., Allentown—City purchased 160-acre site about 2 mi. from here for sewage-disposal plant. Estimate $2,000,000. C. D. Weisbach, city engr.

Pa., Cheltenham—Town plans election to vote on $625,000 bonds to install sewerage system and sewage-disposal plant.

Pa., Reading—See "Streets and Roads."

W. Va., Summerville—City plans to install sewage-disposal plant under supervision of State Health Dept. Cost, $15,000.

S. C., Lake City—City plans to install sewerage system and water-works. Cost $45,000. J. Newton Johnson, Florence, engr.

Fla., Perry—City election May 15 to vote on $20,000 bonds for sewers and water mains. Address Mayor.

Tenn., Knoxville—See "Water-works."

Ky., Owensboro—City sold $225,000 bonds for sewers. H. Talbother, supt.

O., Massillon—H. E. McYost, city engr., estimates cost of installing sanitary sewer in Mill St. at $11,000.

O., Piqua—Council passed ordinance for sanitary sewer in Boal Ave., together with manholes, laterals, etc. J. M. Lloyd, city clk.

Ind., Indianapolis—Bd. Pub. Wks adopted resolution to build sewer in West 10th St. About $90,000. B. J. T. Jeup, city engr.

Minn., Minneapolis—City plans installing about 14 mi. sewers by day labor. Cost, $536,000. F. W. Cappelen, city engr.

Minn., St. Paul—City plans to install sewer in portion Snelling Ave. O. Claussen, city engr.

Neb., Blair—City defeated $21,000 bonds to install sewers.

Wyo., Casper—City election May 16 to vote on $110,000 bonds for sewers.

Wyo., Guernsey—City sold $11,000 bonds to install sewers.

Ark., Harrison—City plans sewer improvements to include 8000 ft. 8-in. clay pipe, also septic tank. Cost $10,000. A. C. Moore, Frisco Bldg., Joplin, Mo., engr.

Tex., Graham—Property owners voted $25,000 bonds for sewerage system and disposal plant.

Okla., Atlas—City plans to install sewage-disposal plant. Bonds for $15,000 recently voted for work. Benham Eng. Co., Colcord Bldg., Oklahoma, engrs.

Okla., Commerce—City plans to install sewerage system involving about 34,200 ft. 8- to 15-in. pipe. Cost, $40,000.

Okla., Okemah—(Official)—City plans election to vote on $55,000 bonds to build sewer system and $20,000 to improve electric-light plant. Benham Engr. Co., Colcord Bldg., Oklahoma, engr.

Okla., Yale—City plans to install sewerage system. Cost, $30,000.

Idaho, Rexburg—City passed ordinance for creating Sewer Improv. Dist. No. 1. Cost, $50,000.

Ariz., Flagstaff—City sold $60,000 bonds to extend sewer system. A. A. Johnson, clk.

Wash., Spokane—M. Macartney, city engr., estimates cost of downtown intercepting sewer at $135,000.

Ore., Astoria—City plans to spend $250,000 for paving and $50,000 for sewers during year. Contract will soon be let. G. T. McLean, city engr.

Cal., Modesto—City defeated bonds to improve streets and sewers and extend water system.

Cal., National City—City having plans prepared for sewerage system requiring about 18,500 ft. 6- to 12-in. pipe.

Cal., San Luis Obispo—City voted $10,000 bonds to install sewers.

Bids Desired

N. Y., Brooklyn—Until May 16 by L. H. Pounds, boro. pres., sewers in portions of Ralph and Paerdegat Ave. Engineers' estimate, $588,436.

Pa., Phila.—Until May 8 by Dept. Pub. Health, for liquid chlorine apparatus for sewage-disposal plant at Byberry Hospital. W. Krusen, dir. P. H. Johnson, Land Title Bldg., archt.

Md., Mt. Rainier—(Official)—Until May 25 by P. J. Hagen, town clk., about 10 mi. sanitary sewers, 10 mi. water mains, water-work pumping station and steel tank and tower; advertised in this issue.

Ill., Grosse Pointe—Until May 5 by Pres. Bd. Local Improv. for system of sanitary sewers.

Ill., Winnetka—Until May 10, by Pres. Bd. Local Improv. for system of vit. tile and reinportland cement concrete sewers in portions of Elder, Lane, Sheridan Rd., Willow and other streets.

Neb., Ogalalla—Until May 7 by City for lateral sewers in Dists. A, B, C, D, H and F. V. E. Warren, clk.

Tex., La Grange—Until May 9 by Mayor and City Council installing sanitary sewage-disposal plant. E. Mattingly, secy.

Ariz., Jerome—Until May 14 by city for purchase of $40,000 bonds for sewers.

Prices and Contracts Awarded

(★Indicates award of contract)

N. Y., Cohoes—Bd. Contract & Supply received low bids 3 electrically driven pumps 4,000,000 and 6,000,000 gals. capacity to take place of hydraulic pumps as follows: Turbine Equipment Co., New York City, $13,800; American Well Wks., 95 Liberty St., New York City, $13,300; Worthington Pump & Machinery Corp., 115 B'way, New York City, $14,400.

N. Y., New York—M. M. Marks, boro. pres., received low bid receiving basins with inlets in portions of 3d Ave., from 61st to 79th St., from Riley Contr. Co., 150 Nassau St., $10,517.

★**N. Y., Niagara Falls**—City let contract sewer on Buffalo Ave. to Donnelly, Graham & Gibbons Co., Cleveland, West 30th St., $95,718.

★**Pa., Clifton Heights**—City let contract sewers to A. C. Shand, Jr., 15th and Market Sts.

★**Pa., Lebanon**—City let contract storm sewers to Mangan & Pugh, Gregory Bldg., Pottsville, Prop. A, $124,225, Prop. B, $102,641.

★**Pa., Phila.**—Geo. E. Datesman dir. pub. wks., let contract sewage disposal plant to J. S. Shanley Co., 15th and Market Sts.

Sewers (Continued)

★**Pa., Phila.**—(Official)—Dept. Pub. Wks. let contract grit chamber, Lycoming St., including outlet sewers, incinerator, etc., to J. F. Shanley Co., Commercial Trust Bldg., $122,751.

★**N. C., Beaufort**—C. H. Bushall, city clk., let contract sewers and laying water pipes to Mishler & Flynn, 105 Spruce St., Chattanooga, Tenn.

★**N. C., Winston-Salem**—City let following sewer contracts: Sect. 1, 17 mi., to Dabbs & Myers, Meridian, Miss., $67,392; Sect. 2, 10½ mi., W. M. Wilkes Co., Durham, $41,400; Sect. 3, 14½ mi., Blankenship & McClelland, Charlotte, $49,958.

Ky., Louisville—Bd. Pub. Wks. received low bids installing sewers between Chestnut and Pennsylvania Aves. to cost $15,000 and portion Payne St., cost, $2500, from H. Bickel Co., 443 Garden St.; G. M. Eady Co., Brook between A and Lee St.; J. H. Cahill, 1415 6th St., and K. A. Barker.

★**O., Bexley**—Village Council let contract sewers to Cleveland Trinidad Paving Co., 140 Lakeside Ave., Cleveland, and S. T. Knight, 487 Oak St., Columbus.

★**O., Cleveland**—Bd. Control let contract sewer in London Rd. (Plan A), to J. Gallagher, 1270 Fry Ave., $57,534; Benham and Revere Sts. to Brookside Constr. Co., 3305 W. 20th St., $10,266; E. 116th and Craven Sts., to D. Zullo, 10501 Hudson Ave., $16,345.

★**O., Conneaut**—See "Streets and Roads."

★**O., Youngstown**—City let contract Shady Run sewer to C. Harris, $21,945

★**Mich., Grand Rapids**—Bd. Pub. Wks. let contract Silver Creek sewer system to John Vander Zwart, $36,803.

★**Ill., Cambridge**—City let contract 24,659 ft. sewer trench and disposal plant to Pub. Serv. Comn. Co., Omaha, $28,518.

★**Ill., Waukegan**—City let contract sewers on several streets to J. M. Donahue, $5047; sewer in Sand St. to Lee McDonough, $5628.

★**Wis., Eau Claire**—City let contract sewerage system to Cast Stone Constr. Co., Eau Claire, $19,678.

★**Ia., Tama**—City let contract installing sewers to T. Carey, 106 Weston Bldg., Clinton, $10,000.

★**Neb., Omaha**—City let contract installing sewers in several districts to A. F. Hanson, 4701 Franklin St., $17,625.

N. D., Cooperstown—See "Water-Works."

N. D., Jamestown—City let contract sewers and water mains to W. Danforth, St. Paul, about $45,000.

★**Mont., Boseman**—See "Streets and Roads."

★**Mo., Carthage**—City let contract installing sewers to Lynch-McDonald Constr. Co., Moberly, $24,034.

Ark., Walnut Ridge—See "Water-Works."

★**Okla., Broken Arrow**—City let contract installing sanitary sewers to J. T. Lantry, Tulsa, $26,061.

★**B. C., Vancouver**—City let contract Beach Ave. sewer to Hodgson & King, Vancouver, $29,504. Noted Apr. 26.

STRUCTURAL STEEL WORK

Proposed Work

Me., Perry—Town plans steel and cement bridge over Little River to replace wooden one. About $12,000.

N. Y., Tonawanda—See "Railways."

N. J., Sea Isle—Bd. Freeholders soon lets contract 3 bridges consisting of creosoted wooden block trestle piling and 1 double lift, Strauss bascule steel bridge over main channel. About $134,000. Address Co. Clk., Cape May.

Pa., Butler—Boro. soon receives bids viaduct over South Main St. W. D. Uhler, Harrisburg, ch. engr.

Pa., Lewistown—Pennsylvania R.R. plans 5-span bridge over Juniata River. A. C. Shand, Broad St. Sta., Philadelphia, ch. engr.

O., Cincinnati—See "Streets and Roads."

O., Eaton—City plans to build 2 steel bridges, 1 on Franklin Rd. near James Kautz, and 1 on New Paris and Eldorado Rd., Jefferson Twp.

Wis., Green Bay—(Official)—City rejected bids for bridge gates over Fox River at various points. W. L. Kerr, Clk.

Ia., Des Moines—City receiving bids about May 20 viaduct over Des Moines River on North St., approaches to be 1000 ft. long. Cost, $600,000. K. Kastberg, city engr.

Minn., Minneapolis—See "Reinforced Concrete."

Idaho, Silver City—County plans election to vote on $55,000 bonds to build bridges.

Bids Desired

N. Y., Brooklyn—Until May 10 by F. J. H. Kracke, comr. plant and struct., Municipal Bldg., New York City, temporary bridge over Sheepshead Bay.

N. J., Elizabeth—Until May 11 by Bd. Freeholders, new plate girder bridge, 77-ft. spans, 50-ft. wide, concrete abutments over Rahway River. J. L. Bauer, co. engr.

N. J., Morristown—Until May 7 by Bd. Freeholders for repairing Keep St. bridge. F. S. Smith, engr.

N. J., New Brunswick—Until May 7 by Bd. Freeholders, repairing fenders of Amboy Bridge over Raritan River. A. B. Fox, co. engr.

N. J., Toms River—Until May 5 by Bd. Freeholders Ocean and Monmouth Cos. repairing Manasquan River Bridge. G. D. Cooper, Red Bank, co. engr.

Pa., Harrisburg—Until May 8 by Bd. of Comn. of Pub. Grounds, State Capital Bldg., for bridge on Cambridge Springs Rd., Crawford Co. T. A. Gilkey, engr.

Pa., Meadville—(Official)—Until May 7 by Bd. Superv. for I-beam bridge over Teaple Run, Richmon Twp. W. F. Goldfinch, R. D. No. 1, Cambridge Springs, secy.

Pa., New Castle—(Official)—Until May 16 by Co. Comrs., building 3 bridges; advertised in this issue.

La., Alexandria—See "Streets and Roads."

O., Cleveland—Until May 8 by City for 3800 tons structural steel for use in erecting public hall. R. Hoffman, city engr.

Illinois—(Official)—Until May 9 by State Highway Comn., Springfield, for 10 bridges in Wayne Co., Sec. C, Fairfield, Golden and Wayne Twps., $5420; 7 bridges, Sec. D, Cisne, Rinard and Xenia Twps., $4610.

Neb., Nelson—See "Reinforced Concrete."

Ariz., Clifton—(Official)—Until May 28 by Bd. Supervs, steel arch bridge across Gila River; advertised in this issue.

Wash., Olympia—See "Streets and Roads."

Prices and Contracts Awarded

(★Indicates award of contract)

Mass., Boston—City received low bids rebuilding Brookline Ave. bridge over Boston & Maine tracks from M. Meehan, 24 Hopedale St., Jamaica Plain, $46,000. Noted Apr. 19.

★**Mass., Plymouth**—County let contract Union Bridge over North River between Marshfield and Norwell to Goff & Wells Constr. Co., Lawrence, $30,000. Noted Apr. 19.

★**N. J., Newark**—County let contract Belleville Bridge over Second River to Lindi & Griffith Co., Ft. 4th Ave., $25,425.

★**Illinois**—(Official)—State Highway Comn., Springfield, let contract bridges to Illinois Steel Bridge Co., Jacksonville, $14,675 Noted Apr. 12.

★**Ia., Marion**—(Official)—County let contract 4 concrete I-beam bridges and 2 pony truss bridges to P. Payne, Cedar Rapids, $16,560; 1 50-ft. pony truss bridge to Waterloo Constr. Co., Waterloo, $4050; 1 7 x 7 box culvert to Mills & Henderson, Central City, $1249; 2 box culverts to J. Wiley, Cedar Rapids, $2350; 2 I-beam bridges to A. P. Munsen, Marion, $3799. Noted Apr. 19.

★**Neb., Geneva**—County let contracts cement bridges as follows: 7 to F. N. Craven; 4 to J. W. Kempf, Shickley; 2 to Elkhorn Constr. Co., Fremont. About $13,685. Noted Apr. 26.

★**Mo., Kansas City**—City let contract viaduct on 27th St. to McMillan Constr. Co., Old Colony Bldg., Chicago, $90,000.

★**Wash., Seattle**—City let contract substructure for Eastland Ave. bridge over Lake Washington Canal to Booker, Kiehl & Whipple, Central Bldg., Seattle, $213,000.

REINFORCED-CONCRETE

Proposed Work

N. Y., Elmira—County plans concrete bridge over Chemung River on Main St. About $160,000. T. A. Brown, city engr.

N. J., Ocean City—Meadowbrook Hotel Co. plans, 14-story, 207 x 207-ft., rein.-con. and steel hotel. About $125,000. J. O. Stevens, Chicago, archt.

O., Cincinnati—Terminals, Etc.—Cincinnati, Lebanon & Northern Ry. and Norfolk & Western Ry. will build group of terminal buildings, Court and Gilbert Ave. Plans include concrete freight sheds, 900 ft. long, and 3-story office. F. M. Crowell, Cincinnati, ch. engr. M. W. of former company.

Minn., Minneapolis—Y. M. C. A. plans 12-story, rein.-con. and steel building, 9th St. and Mary Pl. About $600,000. Long, Lamoreaux & Long, archts., 830 Hennepin Ave., Minneapolis, and Shattuck & Hussey, assoc. archts., 49 South La Salle St., Chicago, prepared plans.

Ore., Portland—Frazier & McLean having plans prepared by Sutton & Whitney, archts., Lewis Bldg., for 3-story, 100 x 100-ft. rein.-con. garage. About $50,000.

Cal., San Diego—(Official)—City Council sold $682,000 bonds for rebuilding Lower Otay dam, rein.-con. M. M. O'Shaughnessy, 2732 Vallejo Ave., San Francisco, supt. and cons. engr. Noted Apr. 19.

Cal., Santa Ana—City prepared plans rein.-con. bridge over Santiago Creek on North Main St. About $30,000.

Que., Dorval—Town Council retained Dupont, Roy and Baudouin, engrs., 225 St. James St., Montreal, to prepare plans 200-ft. rein.-con. tunnel. About $50,000.

B. C., New Westminister—Council approves plans permanent approach to Fraser River Bridge, including 40-ft. concrete wall. About $16,000.

Bids Desired

N. Y., Albany—(Official)—Until May 29 W. W. Wotherspoon, state supt. pub. wks. Capitol, Barge Canal Work, Contract "P," Cayuga and Seneca Canal, Sec. 1, concrete cut-off wall below walls of Lock No. 3, Senaca Falls, $76,41[illegible] Contract No. 144, Erie Canal, Sec. 9, 2 concrete bridges over Red Creek, Genessee Valley Park, Rochester, $41,480; Terminal Contract No. 4[illegible] barge canal terminal near East 138th St., Bronx Boro., $170,300; advertised in this issue.

N. J., Paterson—Until May 16 by Bd. Freeholders for 3-span rein.-con. bridge over Passaic River on Newark and Pompton Turnpike. About $60,000. A. Ferguson, co. engr.

N. J., Trenton—Until May 8 by Bd. Freeholders for rein.-con. culvert bridge over stream on Federal City Rd. J. McCullough, dir. dept. bridges.

Va., Louisa—(Official)—Until May 12 by Bd. Superv. for rein.-con. bridges over South Anna River at Morris Ford and Near West Mill's, 81.9-ft. long and 12-ft. wide and 71.9-ft. long and 12-ft. wide, respectively.

Fla., Bartow—See "Streets and Roads."

O., Cincinnati—Until May 10 by Bd. Park Comrs., 2005 Gilbert Ave., rein.-con. swimming pool, excavation, cement walk, vitr. drains, inlets and galvanized water pipes. C. H. Meeds, executive officer.

O., Youngstown—Until May 7 by F. H. Vogan, co. clk., building 225-ft. rein.-con. or masonry bridge over Dry Run on Oak St. Rd., also grading approaches, 40,000 cu.yd.

Minn., Staples—Until May 8 by city for 200,000-gal. concrete reservoir. E. W. Findsen, clk.

Neb., Nelson—Until May 8 by W. C. Hall, co. clk., building concrete or steel bridge, 3 mi. north here.

N. D., Linton—Until May 7 by County furnishing concrete culverts during 1917.

Ore., Portland—Until May 11 by Co. Comrs. for 2 rein.-con. bridges Nos. 8 and 9 on St. Helens Rd., including 250 cu.yd. class A concrete in superstructure, 60 sq.yd. in foundation, 20,000 lb. reinforcing steel, 160 lin.ft. railing, 360 cu.yd. foundation excavation.

California—(Official)—Until May 14 by California Highway Comn., 515 Fornum Bldg., Sacramento, bridge and road work as follows: Siskiyou Co., 3 rein.-con. bridges over Little Castle, Greenhorn and Yreka Creeks, 84- 60- and 42-ft. respectively.

Solano Co. paving 3.46-mi. road from westerly boundary to Cordelia, Portland cement concrete. Alameda Co., paving 3.2-mi. road from Santa Rita to Dublin, Portland cement concrete.

Santa Barbara Co., grading 2.9-mi. from Las Crues to Gaviota Pass.

Los Angeles Co., paving 4.1-mi. from Castaic to Castaic School, Portland cement concrete. A. B. Fletcher, highway engr.

Calif., San Jose—Until May 21 by H. A. Pfister, co. clk., rein.-con. girder-bridge, near Wright Station, two 40-ft. and 20-ft. spans, also one 40-ft. rein.-con. slab bridge on Ross Ave.

Ont., Listowell—Until May 15 by W. R. Reynolds, clk., for 150,000 gal. concrete reservoir.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Conn., New Haven**—Yale University let contract rein.-con. tunnels, cement sheds, tool shed and work office in connection with new power plant and heating system to Sperry Eng. Co., 82 Church St., $85,000.

★**N. Y., Brooklyn**—National Lead Co., 111 Broadway, New York, let contract 3- and 4-story, rein.-con. factory to W. Kennedy Constr. Co., 215 Montague St., $100,000.

★**N. Y., Massena**—(Official)—Town let contract concrete-steel arch bridge over Grasse River to Cleveland & Sons Co., Brockport, $68,519. Noted Apr. 19.

N. Y., New York—(Official)—Dept. Parks received low bids concrete bulkhead along waterfront of Corlears Hook Park from P. J. Duffy, St. Ann's Ave. and 132d St., $31,213. Reinforced Concrete Engr. Co., 1547 B'way, $31,629; Snare & Triest Co., Woolworth Bldg., $344,483.

★**N. J., Elizabeth**—Weimar Storage and Trucking Co., 352 Elizabeth Ave., let contract 4-story, 50x92-ft., reinforced.-con. plant, West Grand St. to W. Clifford & Sons Co., 360 Union Ave.

★**N. J., Plainfield**—Niles-Bement-Pond Co., 929 South 2nd St., let contract 1-story, steel and concrete addition to H. E. Baton, 12th and Sansome St., Philadelphia, $75,000.

★**O., Warren**—County let contract rein.-con. bridge over Mahoning River on South Main St. to Hackedorn Constr. Co., Pythian Bldg., Indianapolis, $60,000.

Reinforced Concrete (Continued)

★**Ind., Indianapolis**—Oliver Chilled Plow Co. let contract rein.-con. warehouse to T. A. Moynahan, 910 South Pennsylvania Ave., $90,000, who sublet all rein.-con. work to C. J. Wacker, 207 Chamber of Commerce Bldg.

★**N. M. Gallup**—Atchison, Topeka & Santa Fe R.R. let contract 2-story, rein.-con. passenger station, eating house and hotel, also 42 x 44-ft. power house, to W. Simpson Constr. Co., 527 Marshstrong Bldg., Los Angeles, $155,000.

★**Ont., Chatham**—Libby, McNeill & Libby, U. S. Yards, Chicago, let contract rein.-con. factory to Hadley Co., 58 Thames St., Chatham, $400,000.

★**Ont., Ottawa**—C. Ogilvy, 126 Rideau St., let contract rein.-con. store building to C. Holbrook & Sons, 425 Somerset St., $50,000.

★**Ont., Toronto**—Hoyt Metal Co., 356 Eastern Ave., let contract concrete plant to L. E. Dowling, 167 Yonge St., $55,000.

STREETS AND ROADS

Proposed Work

Mass., Boston—City plans to improve Commonwealth Ave. About $80,000. E. F. Murphy, comr. pub. wks.

Mass., Williamstown—State Highway Comn., Boston, plans to build 1½-mi. state road in Williamstown.

R. I., Providence—State Bd. Pub. Rds. soon lets contract road work in various townships as follows: 3 mi. Wickford to Saunderstown; 2 mi. Portsmouth; 1½ mi. Sakonnet Point Rd.; 3.6 mi. Wakefield; 1.6 mi. Warren and Bristol; 2 mi. Putnam Pike; 2 mi. Hartford Pike and 1 mi. New London Turnpike, all bituminous macadam; also for 1 mi. Taunton Ave., cement concrete, and 1 mi. Mendon Rd., bituminous concrete. I. P. Patterson, engr. Noted Apr. 12.

N. Y., Cortland—County plans to build 3-mi. Cortland-Marathon Rd. and 2-mi. Cortland-Gulf Rd. E. S. Dalton, clk.

N. Y., Northport—City plans to issue $40,000 bonds to pave streets.

N. Y., Poughkeepsie—County plans to build Quaker Hill Rd. A. C. Rapelje, co. engr.

N. J., Flemington—Village plans election to vote on $35,000 bonds to macadamize streets; plans include 16,000 sq.ft. paving North Main, Hopewell, Broad and Park Ave.

N. J., Newark—City plans to pave portion Sanford Ave., wood block. M. R. Sherrard, city engr.

N. J., Newark—City plans to pave Meeker Ave. and Peddie St. About $20,000 and $14,000, respectively. M. R. Sherrard, city engr.

N. J., Phillipsburg—Town Comn. appropriated $20,000 to improve streets.

N. J., West New York—Town plans to pave portion Bergenline Ave., asphalt blocks on 8-in. concrete foundation. C. Swenson, clk.

N. J., Woodbury—State Rd. Dept., Trenton, appropriated $60,000 to repair roads in Gloucester Co.

Pa., Reading—City to sell $200,000 bonds July 1 to improve streets, sewers, etc. E. Ulrich, city engr.

W. Va., Grafton—County plans to improve number of roads. J. A. Sinsel, co. engr.

W. Va., Parsons—County voted $150,000 bonds to improve roads in Fairfax Dist. and $60,000 for Dry Forks Dist.

N. C., Trenton—County plans to spend $25,000 to improve roads. D. W. Dudley, co. surv.

Miss., Tunica—County plans to spend $250,000 to build roads.

Tenn., Knoxville—See "Water-works."

O., Ashland—City plans to improve portion College Blvd. R. R. Conn, city engr.

O., Bryan—County to sell $333,400 bonds May 11 to improve roads in various townships. G. C. Beucler, co. aud.

O., Cincinnati—W. Boch, co. surv., submitted report estimating cost improving Wilmer and Hubble Rd. at $27,500, Hanley Rd., $10,000. Bids will soon be received.

O., Cincinnati—City Council authorized $150,000 bond issue for repair of streets, bridges, viaducts and culverts, also $107,600 issue for improvement of Jones and other streets. F. Krug, city engr.

O., East Liverpool—City plans to pave portions Bway. and Washington St. J. C. Kelly, city engr.

O., Lancaster—City plans to improve portion West Wheeling St. J. Griggs, city engr.

O., New Lexington—County plans to improve brick roads. P. L. Van Atta, clk.

O., Toledo—City plans $60,000 bond issue to resurface and repair streets. H. C. McClure, city engr.

Ind., Laporte—County plans 2 mi. 16-in. monolithic brick road.

Mich., Saginaw—City plans to pave portion 4th, Germania, Park and Washington Ave., also Hill, Maple, 7th, Ruby and Meredith St. H. H. Eymer, city engr.

Mich., Woodward—City preparing plans widening Woodward Ave. About $4,000,000. R. H. McCormick, city engr.

Ill., Freeport—C. Lindberry, co. engr., estimates cost paving 3 mi. Geneva Rd., 16-ft. paving, 24-ft. roadway, at $51,000. Noted Apr. 26.

Wis., Elkhorn—County plans to spend $100,000 to improve roads. G. D. Harrington, clk.

Wis., Shell Lake—County plans to spend $60,000 to improve roads. W. J. Knapp, co. surv.

Ia., Sumner—City rejected bids paving 31,000 yd. A. Wismer, clk.

Minn., Chaska—County plans to spend $50,000 to improve roads. D. Childs, co. engr.

Kan., Downs—City plans to pave portion Morgan Ave.

Kan., Topeka—County plans 16-ft. brick road, cement curb on concrete foundation, from Topeka to Lawrence. About $16,000 per mile.

Neb., Lincoln—City plans to issue $84,930 bonds to pave streets in 20 districts. A. Dobson, city engr.

Wyo., Meeteetse—Bd. Co. Comrs. plan election May 15 to vote on extra 2-mill levy tax to raise $16,000, State Highway Comn. to appropriate like sum, to build county roads.

Mont., Great Falls—Co. Comrs. appropriated $50,000 to pave portion Nelhart Rd. J. E. Moran, clk.

Mont., Havre—Co. Comrs. plan to build system of roads to comprise about 1000 mi. main highways.

Mo., Webb City—City plans to improve streets. About $30,000. L. E. Briggs, city engr.

Mo., Webster Grove—City plans to lay 10,000 sq.yd. concrete pavement with curbs, etc., also 3 mi. combined curb and gutter. S. H. Bateswell, city engr.

Ark., Blytheville—City plans to spend $20,000 to pave streets.

Ark., McGehee—(Official)—Arkansas-Louisiana Highway Comn. will receive bids in about 60 days for 165-mi. highway from Louisiana state line to Grady and Dermott with branch to Arkansas City. Estimate, $1,800,000. M. E. Sherland, secy. Ford & MacCrea, Gazette Bldg., Little Rock, engrs. Noted Apr. 19.

Tex., Albany—Co. Comrs. will receive bids in May for purchase of $10,000 bonds for road work.

Tex., Childress—County plans to build 2 roads. R. G. Caraway, co. engr.

Tex., Haskell—County plans to build 100-mi. gravel road. H. M. Rike, co. engr.

Tex., Sonora—Co. Comrs. Court will hold election to vote on $85,000 bonds to build roads.

Okla., Antlers—County plans election to vote on $51,000 bonds to build roads in Antlers Twp. and $30,000 for roads in Koskma Twp.

Okla., Durant—County plans to spend $60,000 on roads and bridges during year. A. Stinson, co. engr.

Okla., Hydro—City voted $20,000 bonds for road work. Noted Apr. 5.

Okla., Mangum—City plans to pave 2½ mi. streets. F. Border, M.D., mayor.

Idaho, Boise—State plans to spend $15,000 on Natl. Park Highway between Bonners Ferry and Idaho-Montana state line, Boundary Co. Noted Apr. 5.

Ariz., Florence—County voted $150,000 bonds to build roads. W. W. Lane, co. engr.

Wash., Olympia—City plans to pave 15th, 17th and Sylvester St. and portion Water St. About $11,000.

Ore., Pendleton—City plans to pave Willow St. et al. and Madison St., gravel bitulithic. About $10,000.

Ore., Vale—County plans to gravel 10-mi. road. B. F. Farmer, co. engr.

Cal., Merced—Bd. Superv. plan election to vote on $1,000,000 bonds to build paved highways. P. T. Thornton, co. clk.

Cal., San Diego—City preparing plans and will receive bids in fall, paving 23 mi. Torrey Pines Highway. G. Cromwell, city engr.

Cal., Santa Barbara—City election June 26 to vote on $21,000 bonds for repairing East Blvd. highway and seawall. A. B. Cook, city engr.

Bids Desired

R. I., Foster—(Official)—Until May 16 by Water-Supply Bd., City Hall, Providence, 3.4-mi. highway in connection with proposed Sciutate Reservoir; advertised in this issue.

R. I., Providence—Until May 9 by Bd. Pub. Rds. for 12-mi. bituminous macadam road, also 1-mi. cement concrete highway.

R. I., Providence—(Official)—Until May 9 by State Bd. Pub. Rds., State House, reconstructing sections state highway; advertised in this issue.

Conn., Hartford—(Official)—Until May 8 by Bd. Street Comrs. for 400,000-gal. 40 to 50%, also 30,000-gal. 65% asphaltic road oil and 30,000-gal. dustoline or its equal. R. N. Clark, city engr.

N. Y., Albany—(Official)—Until May 7 by E. Duffey, state highway comr., highways in various counties; advertised in this issue.

N. Y., Long Island City—Until May 7 by M. E. Connolly, boro. pres., Queens Subway Bldg., regulating, grading, curbing, guttering paving and laying sidewalks, together with all work incidental thereto on portions of Governor Pl., Brandon, Van Alst and Payntar Ave. and Queens Blvd.

N. Y., New York—Until May 9 by M. M. Marks, boro. pres., furnishing and delivering 200,000 wood paving blocks, 3-in. wide by 3½-in. deep; also 57,000 gal. gasoline.

St. George, S. I., N. Y.—Until May 7 by C. D. Van Name, boro. pres., regulating and repaving portion Ward Ave., bituminous concrete.

St. George, S. I., N. Y.—Until May 8 by C. D. Van Name, boro. pres., regulating and repaving with old belgian blocks portion Carlyle St.

St. George, S. I., N. Y.—Until May 11 by C. D. Van Name, boro. pres., regulating and repaving portion Market St., bituminous concrete.

N. J., Bayonne—Until May 8 by Bd. Comrs. for repairing streets, asphalt and bitulithic. W. L. Clarkson, city engr.

N. J., Elizabeth—Until May 7 by Bd. Freeholders for repairing 2 streets, 19,157 sq.yd. concrete foundation. B. King, clk.

N. J., Elizabeth—Until May 11 by Bd. Freeholders, repairing roads in county, tarvia. J. L. Bauer, co. engr.

N. J., Hackensack—Until May 9 by Bd. Freeholders for replacing concrete pavement on county roads. W. M. Harkness, clk.

N. J., Jersey City—(Official)—Until May 9 by Blvd. Comrs., repaving Hudson Blvd. between Paterson Plank Rd. and Hackensack Plank Rd., West Hoboken and North Bergen; advertised in this issue.

N. J., Jersey City—(Official)—Until May 9 by Blvd. Comrs., repaving Hudson Blvd. between Communipaw and Newark Ave.; advertised in this issue.

N. J., Jersey City—Until May 10 by City Comn. paving portions Central, Newark and West Side Ave., granite block concrete foundation. C. A. Van Kueren, city engr.

N. J., Jersey City—Until May 17 by Bd. Freeholders for improving Newark Turnpike, granite block. T. J. Wasser, co. engr. Noted Apr. 12.

N. J., Linden—Until May 7 by Twp. Com., improving Morse's Mill Rd. and 21st St., including 8105 sq.yd. 8-in. macadam with tarvia surface and 4544 cu.yd. excavation. J. L. Bauer, Elizabeth, twp. engr.

N. J., Mays Landing—Until May 9 by Bd. Freeholders for 12,000-gal. lignin binder, known as Glutrin. A. H. Nelson, co. engr.

N. J., Newark—Until May 10 by Bd. St. and Water Comrs., furnishing and applying 60,000 gal. non-asphaltic road oil to streets. M. R. Sherrard, city engr.

N. J., Newark—Until May 7 for furnishing and delivering broken stone on all county roads. F. A. Reimer, co. engr.

N. J., Palisades Park—(Official)—Until May 15 by R. Todd, mayor, Boro. Hall, Broad Ave. and Central Blvd., improving portion Central Blvd. Advertised in this issue.

N. J., Perth Amboy—Until May 7 by Bd. Aldermen for 75,000 gal. fuel oil, 28-31-deg. Baumé or better, in tank-car lots. J. J. Hanson, clk. Runyon & Carey, 895 Broad St., Newark, engrs.

N. J., Roselle—Until May 11 by Boro. repairing 5 streets, 28,010-sq.yd. to be treated with tarvia and 140-tons crushed stone. L. Bauer, boro. engr.

N. J., Trenton—Until May 11 by City Comn. paving South Broad St. and Brunswick Ave., sheet asphalt on 5-in. concrete base with concrete curb and gutter. A. Swan, Jr., city engr.

Md., Baltimore—(Official)—Until May 15 by C. H. Wilson, secy., State Roads Comn., 601 Garrett Bldg., road and bridge work; advertised in this issue.

W. Va., Bluefield—Until May 11 by City, paving and building curbs and gutters on portions William and Franklin St., also Roy Ave., bituminous macadam on concrete base. H. O. Wiles, city engr.

W. Va., Wellsburg—Until May 24 by County for road work as follows: 6-mi. Route No. 3, from Follansbee to Pennsylvania state line, 2.8-mi. Route No. 13, from Bethany Pike to Ohio Co. line, asphaltic concrete, bituminous macadam or concrete; 2.9-mi. Route No. 9, Sec. 3, from Bethany to Pennsylvania state line, 3.4-mi. Route No. 6, from Cross Creek to intersection of public road at John Carter's, water bound or tar bound macadam, also 0.4-mi. Route No. 8, from Wellsburg corporation line to West Virginia-Pittsburgh Mine, brick. C. A. Elchelberger, co. rd. engr.

S. C., Beaufort—(Official)—Until May 10 by H. G. Otis, city mgr., improving Bay St., 13,000-sq.yd. paving and 3000-ft. curb, cement concrete, bitulithic or warrenite. H. R. Pollitzer, city engr. Noted Apr. 19.

Fla., Bartow—Until May 28 by County paving 302,000 sq.yd. asphalt, and 9 concrete bridges, each of 20-ft. spans, in Winter Haven Special Road and Bridge Dist.; advertised in this issue.

Fla., Tavares—(Official)—Until May 7 by H. H. Duncan, clk bd. co. comrs., for 20 mi. road, Howey Special Rd. and Bridge Dist., including clay surfacing, grading and clearing. About $62,000. Noted Apr. 12.

Miss., Sumner—(Official)—Until May 18 by Clk. Bd. Supervs., materials for use in con-

Streets and Roads (Continued)

structing gravel highway and concrete culverts and bridges through Dists. Nos. 4 and 5; advertised in this issue.

La., Alexandria—Until May 26 by Bd. Supervs. Rd. Dist. No. 8 for grading, bridging, culverts and grains; for hauling, placing and rolling of gravel surface; for gravel, sand, stone, reinforcement and bridge material required for building units 1, 2 and 3 of highways to be improved in Rd. Dist. No. 8, about 15 mi. J. W. Texada, pres. bd. supervs.

La., New Orleans—Until May 9 by D. Buil, state highway engr., paving 13.68-mi. Crowley-Jennings Rd., gravel.

O., Bryan—(Official)—Until May 11 by County for 22.11-mi. water-and bituminous macadam roads. About $361,195. B. Beucler, co. highway supt.

O., Port Clinton—(Official)—Until May 29 by Village Council paving 2nd St., rein.-con. W. H. Williamson, clk.

Indiana—By Co. Comrs. for building roads as follows:
May 7: Paoli, gravel or macadamized road in Paoli Twp.; P. M. Stephenson, co. aud.
Williamsport, 4993-ft. gravel road in Medina Twp.; D. H. Moffitt, co. aud.
New Albany, road in New Albany Twp.; E. Dupaquier, co. aud.
Nashville, road in Jackson Twp.; stone, gravel or other material. O. Morrison, co. aud.
Rockport, stone or gravel roads in Hammond and Ohio Twps. J. F. Stocking, co. aud.
Portsland, gravel road in Madison and Noble Twps.; J. Bonifas, co. aud.
Greensburg, roads in Washington and Adams Twps.; J. C. Barbe, co. aud.
Fowler, 4 gravel roads in Richland, Center, Parish Grove, and Pine Twps.; W. Mankey, co. aud.
Angola, 3 roads 1 to be of concrete; I. W. Pence, co. aud.
May 8: Delphi, road in Democrat, Burlington and Monroe Twps.; H. D. Good, co. aud.
Crawfordsville, crushed limestone and gravel road, Scott Twp., also road in Franklin Twp.; W. F. Batman, M. D., co. aud.
Goshen, gravel road in Osolo Twp., concrete road, Baugo Twp.; A. R. Bemenderfer, co. aud.
Salem, 11,735-ft. road, Vernon Twp.; E. E. Batt, co. aud.
Rochester, stone road, Liberty Twp.; E. A. Smith, co. aud.
Bedford, 6930- and 8267-ft. gravel or macadam roads.
May 9: Columbus, road in Rockcreek Twp.; W. H. Scott, co. aud.
May 11, Mt. Vernon, 4600-ft. gravel road, Harmony Twp.; J. R. Haines, co. aud.

Ind., Michigan City—(Official)—Until May 15 by A. Spychalski, city clk., paving, curbing and grading 11th St., concrete foundation. About $24,379. E. G. Dunn, city engr.

Mich., Kalamazoo—(Official)—Until May 14 by C. L. Miller, city clk., for 535,000 vitr. paving brick; advertised in this issue.

Mich., Ypsilanti—Until May 7 by city for 7-in. 1-course concrete paving 8 ft. wide from New York Central R.R. tracks west to city limits. S. Damon, clk.

Ill., Indianola—Until May 9 by S. K. Van Fleet, town clk., for 12,173 lin.ft. 10-ft., 4524 lin.ft. 16-ft., 780 lin.ft. 33-ft. and 176 lin.ft. 30-ft. concrete or bituminous macadam pavement in town of Carroll and Indianola.

Ill., Quincy—(Official)—Until May 12 by L. L. Boyer, co. supt. highways, for 5131 ft. gravel road, Sec. 6, Ellington Twp.

Illinois—(Official)—Until May 9 by State Highway Comn., Springfield, state-aid roads as follows: Adams Co., Sec. C, macadam, $24,494; Bond Co., Sec. D, brick, $7572; Clinton Co., Sec. F, concrete, $3220; De Kalb Co., Secs. S and F, concrete, $18,624 and $7,644 respectively; Effingham Co., Sec. F, concrete, $5609; Fulton Co., Sec. I, concrete, $6863; Lee Co., Sec. D, brick, $9246; Logan Co.; Secs. E, F, G, H, I, J, gravel, $8,073, $8002, $7918, $7863, $8086 and $1983, respectively. Macon Co., Sec. C, oiled earth, $11,326.

Wis., Madison—Until May 7 by Bd. Pub. Wks. paving streets concrete and sheet asphalt. About $450,000. C. A. Trimmer, city engr.

Ia., Eldon—Until May 16 by H. E. Ritz, city clk., for 13,000 sq.yd. paving, 1500 yd. extra excavation and 6700 ft. concrete curb.

Idaho, Pocatello—Until May 17 by A. R. Dawson, city clk., 62,375 sq.ft. concrete sidewalks with necessary grading. J. H. Giles, city engr.

Wash., Olympia—Until May 14 by State Highway Comn. for building 41 mi. state highway and 5 bridges. J. Allen, comr.

Wash., South Bend—Until May 8 by County for clearing, grubbing, grading and draining 1¼-mi. State Rd. No. 20; ½-mi. Lilly-Wheaton Rd. and 1¾-mi. Natl. Park Highway between Menlo and Holcomb.

California—See "Reinforced Concrete."

Que., St. Malachie d'Ormstown—Until May 7 by W. G. Gerrigle, secy-treas., macadamizing roads as follows: 3-mi. river road north side Chateguay, Ormstown to Dewittville; 3½-mi. Outard River Rd.; 2-mi. south side river road, Ormstown to Brysons; 3½-mi. upper Ormstown concession road and part of headline road.

Prices and Contracts Awarded

(★Indicates award of contract)

★Vt., Newport—(Official)—City let contract paving 9500 sq.yd. concrete, 4000 ft. concrete curb and 3500 sq.yd concrete sidewalks to J. J. Fitzpatrick & Son, Plattsburg, N. Y.

★Conn., Ansonia—(Official)—State Highway Comn., Hartford, let contract 3016 lin.ft. warrenite on concrete base, to Warren Bros. Co., 142 Berkeley St., Boston, about $22,400. In addition Conn. Co. and city of Ansonia will do extra work, estimated at $7503 and $11,092, respectively.

Conn., Hartford—(Official)—Bd. Street Comrs. received low bids paving (a) Contract 1, Albany Ave., asphalt; (b) Contract 2, Capitol Ave. and Ferry St., asphalt; (c) Huyshipe and Van Dyke Ave., asphalt; (d) granite blocks; (e) general resurfacing as follows: Warren Bros. Co., 142 Berkeley St., Boston, (a) $27,046, (b) $28,576, (c) $35,604; E. Balf Co., 26 State St., (a) $27,-621, (b) $28,911, (c) $33,731, (e) $8855; Eastern Asphalt & Paving Co., 280 Broadway, New York, (a) $37,249, (b) $38,376, (c) $47,887, (e) $11,-173; Union Paving Co., 26 State St., (c) $45,371, (e) $10,395; O'Neil Bros., 324 Maple Ave., (d) $13,699. Noted Apr. 19.

N. Y., New York—(Official)—M. M. Marks, boro. pres., received low bids furnishing and delivering granite blocks to Williamsburg Bridge from Rockport Granite Co., 13 Park Row, $13,-350; J. Leopold & Co., Woolworth Bldg., $13,425; Booth Bros. & Hurricane Island Granite Co., 206 Broadway, $13,537.

N. J., Bayonne—(Official)—City received low bid paving 14 streets, 50,000 sq.yd. asphalt, 5800 sq.yd. granite block, from W. T. S. Critchfield, 2 Green St., Jersey City.

★N. J., Elizabeth—City let contract 20,000 cu.yd. earth fill on Baltic St. to E. L. Faughnan, 516 Middlesex and Essex Turnpike, $12,600.

★N. J., Hackensack—County let contract 20 ft. concrete paving on Fort Lee Rd. between Leonia and Teaneck to J. T. Harrop Constr. Co., 136 Passaic Ave., Garfield, $25,000.

★N. J., Jersey City—Co. Park Comn. let contract paving West Side Park, asphalt blocks, to Hastings Pavt. Co., 25 Broad St., New York, $38,073.

★N. J., Newark—City let contract paving Vail St. to Standard Bitulithic Co., Essex Bldg.; Burnet St., Wood Block, to R. Sangiovanni, 78 Hoyt St. About $14,168. Noted Apr. 12.

N. J., Paterson—County received low bid paving Midvale Rd., from M. J. O'Connell, Hackensack, macadam, $23,144; shale and native stone, $22,504.

N. J., Plainfield—(Official)—City received low bids paving various streets, (a) brick, (b) concrete, as follows: J. C. Bentley, Elizabeth, (a) Madison Ave., $4804; (b) Park Ave., $10,061; Watchung Ave., $2062; Crescent Ave., $1866; East 7th, $9104; West 7th, $40,950; Newark Paving Co., 133 1st St., Newark, (a) West Front St., $8,219; East Second St., $7912; North Ave., $9595; East 5th St., $16,909; Park Ave., $14,344; Watchung and Crescent Ave., $8739.

★Pa., Mahanoy City—(Official)—City let contract 30,000 yd. of Bitoslag paving to P. C. Reing.

★Pa., Phila.—Geo. E. Datesman, dir. pub. wks., let contract repaving portions Chelten Ave., to McNichol Paving & Constr. Co., 1923 Cherry St., $53,877; repaving portions of Columbia Ave. to J. Meehan & Sons, 915 West Dauphin St., $31,323.

★Pa., Pittsburgh—County let contract paving Renzie Rd. to M. Ott & Co., 414 Warrington Ave., $77,953. Noted Apr. 5.

★N. C., Thomasville—City let contract laying concrete sidewalks to G. Martin, Salisbury, about $10,000.

★N. C., Winston-Salem—City let contract paving 26,000 sq.yd. concrete, 9,000 sq.yd. 4-in. concrete walks, 28,000 lin.ft. concrete curb to W. C. Campbell & Co., Charlotte, $1.41, $1.02 and 32c., respectively.

★Ga., Marietta—City let contract paving streets to Merrill Road Improv. Co., James Bldg., Chattanooga, $48,000.

★O., Alexandria—(Official)—Village let contract improving portion Granville Rd. and Main St. to R. H. Nutter & Co., Newark, $41,502. Noted Apr. 5.

★O., Cambridge—City let contract paving Woodlawn Ave., to Cisler & Morris, Marietta, $20,856; brick for same to Noble Brick Co., Glenwood, $5114. Noted Apr. 12.

★O., Cleveland—City let contract improving Jefferies Ave. to Enterprise Paving & Constr. Co., 8436 Bway., $10,846. Noted Apr. 26.

★O., Cleveland—City let contract grading, draining, laying sidewalks and improving several streets to O. J. Leach, 504 Eddy Rd., and Ohio Quarries Co., Citizens Bldg.

★O., Conneaut—City let contract 7540 cu.yd. excavation, 14,100 lin ft. concrete curb, 22,625 sq.yd. brick paving, 4-in. concrete base, also 4455 lin.ft. storm sewer, to B. A. Bennett, Coneaut, $66,891.

★O., Toledo—City let contract paving Miami and Elm St to H. P. Streicher & Co., Terminal Bldg., and Harris & Tansey, Nasby Bldg., $70,-479 and $71,687, respectively.

★O., Toledo—County let contract repairing 22 roads to M. P. Hannin, Valentine Bldg.

★Ind., Greencastle—County let contract ing and improving roads as follows: Rocma James Bridges Rd. to Allen & Lisby, Green $31,632; C. B. Klein Rd. to A. G. Day, G castle, $11,350; J. F. Gillespie Rd. to Bl Hill, $8814.

★Ind., South Bend—(Official)—Harter R Co. let contract 23,000 sq.yd. Bitoslag pavi Williston Constr. Co., 343 South Dearborn Chicago.

★Mich., Marshall—(Official)—County let tract 5.76 mi. paving to Stoddart Constr. Grand Rapids, $135,291. Noted Apr. 5.

★Illinois—(Official)—State Highway Co Springfield, let contracts road work as follo Buis & Olson, St. Joseph, Christian Co., Sect D, E, F, G, H, oiled earth, $22,113, McDon Co., Sects. J, K, M, earth, $11,890; A. C. L Co., 1816 Lafayette Ave., Mattoon, Coles Sect. C, brick, $15,256; W. C. Meneely, Frankf Ind., De Witt Co., Sects. A, B, C, D, E, F, earth $26,250; J. Hinden & Son, Pana, Kendall Sect. B, concrete, $13,266; Cocking Cement Jacksonville, Morgan Co., Sect. C, oiled earth $14,121; N. B. Ridge, Sterling, Whiteside Co Sect. F, gravel, $12,630, Sect. G, $12,950. Noted Apr. 5.

★Ill., Freeport—County let contract 1000 brick road and 2800 ft. tar macadam road to Gund-Graham Co., Freeport, $10,264 and $7400 respectively.

★Ill., Kewanee—(Official)—City let contract asphaltic concrete paving to Standard Paving Co., 29 South La Salle St., Chicago, $60,000; brick paving to Gund Graham Co., Freeport, $27,-000, and G. Mallory, Kewanee, $22,000. Noted Apr. 12.

★Wis., Clintonville—(Official)—City let contract paving Shawano St. to Lehman Bros., Watertown, $16,491. Noted Apr. 19.

★Wis., La Crosse—City let contract paving streets to T. E. Woolley, 148 West Ave. About $100,000.

★Wis., Milwaukee—H. J. Kuelling, co. highway comr., let contract 4-mi. rein.-con. pavement on Cedarburg Rd. to G. P. Schari, paving 91c. per sq.yd. grading 69c. per sq.yd., culverts $12 per cu.yd.

★Minn., Blue Earth—(Official)—County let contract grading, grubbing and installing corrugated metal culverts on 20 mi. earth roads to Lamoreaux Bros. Co., 805-11 Brandeis Theater Bldg., Omaha, $30,921. Noted Apr. 5.

★Minn., St. Paul—City let contract paving portion Inglehart and Portland Ave., asphaltic concrete, to Fielding & Shepley, 216 University Ave., $36,900 and $46,990, respectively.

★Kan., Augusta—City let contract 2½-in. vertical fiber brick paving to A. Jaicks Co., American Bank Bldg., Kansas City, Mo., $39,996.

★Neb., Lincoln—City let contract paving in Dist. No. 231, asphalt concrete, to Burke-Cochrane Constr. Co., $1.75 per sq.yd.; Dist. No. 372, sheet asphalt, Abel Constr. Co., $1.93 per sq.yd.

★N. D., Bismarck—County let contract grading 100-mi. road to T. Terry, $175 per mi.

★Mont., Bozeman—(Official)—City let contract paving and installing sewer in Dist. No. 145 to Warren Constr. Co., Journal Bldg., Portland. $11,430.

★Mo., Hollister—Hollister-Ridgedale Special Rd. Dist. let contract road work to Serwood & Myers, Springfield, $10,000.

★Tex., Hereford—(Official)—City let contract paving 12 blocks, asphaltic concrete, to McCormick Co., Kansas City.

Okla., Okmulgee—City received low bid paving Alabama and 11th St. from Park-Moran Co., 152 West 2d St., Salt Lake City, $16,628. Noted Apr. 5.

★Wash., Colfax—County let contract graveling 63,706 ft. permanent highway No. 12 to J. A. Fletcher & Co., Seattle, $53,300. Noted Apr. 12.

★Wash., Colton—City let contract paving streets, 1 course concrete to McGuire Bros., American Bank Bldg., Seattle, $11,033.

★Wash., Everett—County let contract paving Bond Prop. No. 24 and Permanent Rd. No. 21 to Bancroft & Morgan, Everett, $61,668 and $15,-584 respectively.

★Wash., Tacoma—County let contract paving 2 mi. permanent highway No. 8-A to McHugh & Johnson, 2330 South E St., $32,248.

★Ore., Clatskanie—County let contract grading 2 mi. Nehalem Rd. to A. L. Clark, Ranier, $19,649.

★Cal., San Francisco—Bd. Superv. let contract improving portion Judah St. to Fay Improvement Co., Phelan Bldg., $16,772.

★N. B., Moncton—City let contract paving various streets to Warren Bituminous Paving Co of Ontario, Ltd., McKinnon Bldg., Toronto, $125,-000; Bridge and Foundry St. to Carrite-Petersen Co., St. John, $15,000. Noted Apr. 5.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

N. Y., Tonawanda—New York Central R.R. (Lines East of Buffalo) granted franchise to build new line through city, including bascule type bridge. Company will spend $2,500,000 for improvements in Tonawandas. G. W. Kittredge, Grand Central Terminal, New York, ch. engr. and superv. valua. engr.

Railways—Steam and Electric (Continued)

N. J., Woodbury—City Council and Bd. Trade interested in project to build electric railway from Woodbury to Paulsboro for which right-of-way has been obtained.

Pa., Bethlehem—Lehigh & New England R.R. making surveys line from Bethlehem to Allentown, thence to Catasauqua. About $1,250,000. R. H. Wilbur, 437 Chestnut St., Phila., vice pres. and gen. mgr.

Pa., Palmerton—Bd. Trade, Slatington, reported interested in project to build electric railway from Palmerton to Slatington.

W. Va., Charleston—Charleston-Gauley Electric Ry., recently incorporated with $100,000 capital stock, will build electric railway from Charleston to Gauley Bridge. G. P. Alderson, G. B. Brooks, J. Y. Arter, B. T. Clayton and J. H. Nash, incorporators.

Ga., Atlanta—Atlanta & Anderson Ry., recently incorporated, will build line from Atlanta to Anderson, S. C. to connect with Piedmont & Northern Electric Ry. M. Bolding Natl. Bank Bldg., secy.

Fla., Miami—Tamiami Trail Corp. obtained right-of-way for railway from Miami to North bank of Tamiami Trail canal, through Monroe Co. to Chevelier Bay, 68-mi. J. F. Jaudon, Miami, interested.

Ky., Louisville—(Official)—Pennsylvania R.R. considering plans prepared by city for eliminating grade crossings for 1½-mi. from Ohio River. A. C. Shand, Broad St. Station, Phila., ch. engr. D. R. Lyman, city engr.

Ill., DuQuoin—DuQuoin, Christopher & Eastern Ry., recently incorporated, plans interurban electric line from DuQuoin to West Frankfort and from DuQuoin to Carbondale. G. W. Dowell, secy.

Kan., Manhattan—Chicago, Rock Island & Pacific Ry. plans extending line from Manhattan to Ft. Riley. C. A. Morse, La Salle St. Station, Chicago, ch. engr.

Kan., Newton—Arkansas Valley Interurban Ry., Wichita, plans to extend line north from Newton or Halstead to Salina. W. J. Faulkner, 120 West 1st St., Wichita, supt. and pur. agt.

Neb., Hastings—Union Pacific R.R. will make improvements here to cost $250,000, including track laying to have capacity of 700 cars; enlarging terminal; building 24-stall roundhouse and addition to station. R. L. Huntley, 15th and Dodge St., Omaha, ch. engr.

Tex., Dallas—Standard Utilities Constr. Co., incorporated with $100,000 capital stock, granted charter to build electric railway from Dallas, through Dallas and Denton Cos. to Slidell, Wise Co., about 58 mi. M. W. Deavenport and H. Rowe, both of Denton, incorporators.

Tex., San Angelo—Gulf Colorado & Santa Fe Ry. will lay 60 mi. of 90-lb. steel on line from San Angelo to Coleman Junction (Coleman P. O.) F. Merritt, Galveston, ch. engr.

Tex., San Angelo—Texas Electric & Power Co., recently organized with $200,000 capital stock, plans electric railway system in San Angelo and electric interurban line radiating in several directions. M. F. Treadwell, Ballinger, secy.

Colo., Denver—A. E. Carlton, S. Penrose, 301 Mining Exchange Bldg., and E. Shove, 510 Mining Exchange Bldg., all of Colorado Springs, purchased Colorado Midland Ry. and will build 2 links in system to join Denver with Salt Lake City.

Cal., Fall Brook—Atchison, Topeka, & Santa Fe Ry. (Coast Lines) applied to State Railroad Comn. for permission to reconstruct 17½-mi. branch line from Fall Brook to Fallbrook Junction (Oceanside P. O.). G. W. Harris, Kerchhoff Bldg., Los Angeles, ch. engr.

Prices and Contracts Awarded

(★Indicates award of contract)

★Mo., Monett—St. Louis & San Francisco Ry. let contract rebuilding line from Monett to Hugo, Okla., Ardmore, Okla. to Hope, Ark., and Fayetteville branch to Tahlequah, Okla., to T. J. Hays, Ft. Scott, Kan.

★Tex., Goose Creek—R. S. Sterling, Houston, let contract grading 23 mi. railway from Goose Creek to Dayton, via Mt. Belview, to Davis & Hughes and Smith & Bramer, Houston. Noted Apr. 5.

EXCAVATION AND DREDGING

Proposed Work

N. Y., Fayetteville—Creek—Legislature passed bill appropriating $40,000 for deepening and widening Limestone Creek. State Engr. Dept., Albany, in charge.

N. C., Wilmington—Drainage—New Hanover Co D. D. No. 3 having plans prepared by J. L. Becton, engr., Wilmington, for 7-mi. main ditch, 3 ft. wide at bottom, 6 ft. deep; also 2 mi. laterals with 2-ft. bottom, involving 36,000 cu yd. excavation. Bids about May 30.

Miss., Phila.—Drainage—Bd. Supervs. plan to drain Kentaskey and Cushtusha swamps. H. W. Bell, Laurel, Miss., and S. A. Redding, Louisville, Miss., retained to make surveys.

La., Abbeville—Drainage—Coulee Kinney D. D. voted $48,000 bonds to dredge Coulee-Kinney River and branches.

O., Urbana—Drainage—Champaign Co. having plans prepared by H. B. Hull, co. engr., for district requiring open ditch, 5450 ft. long, 2 ft. wide at bottom, 5 ft. deep and containing 6389 cu.yd excavation. W. S. Coffey, co. aud.

Ia., Ft. Dodge—Ditch—Webster and Hamilton Cos. plan joint ditch in Hardin Twp. and northern part of Hamilton Co. to drain land near Stratford. About $25,000.

Ia., Glenwood—Channel—County has had surveys made straightening and improving channel of Silver Creek, involving 8-mi. ditch and 547,000 cu.yd. earth. S. Dean, Glenwood, engr.

Ia., Glenwood—Drainage—County plans Nishabotna D. D. No. 7. R. E. Humphrey, co. aud.

Ia., Storm Lake—Drainage—Bds. Supervs., Buena Vista, Pocahontas, Sac and Calhoun Cos., plan Big Cedar River Drainage Project to drain 200,000 acres. About $800,000. A. H. Cunningham, engr. in charge.

Minn., Chaska—Ditch—County plans County Ditch No. 6. J. B. Connolly, co. aud.

Minn., Duluth—Ditch—County plans Ditches Nos. 8 and 10. About $32,000 and $27,000, respectively. W. O. Halden, co. aud.

Minn., Stillwater—Ditch—Washington and Chicago Cos. plan to extend Judicial Ditch No. 1.

Minn., Walker—Ditch—Cass County having plans prepared by A. W. Moulster, engr., Pine River, drainage ditch 4 mi. long, 4 ft. wide at bottom, average depth 4 ft.; also 1 lateral 2200 ft. long and about 28,000 cu.yd. excavation. C. B. Bacon, Walker, co. aud.

Tex., Beaumont—Drainage—H. A. Kipp, drainage engr., made surveys improving and cleaning out Hillebrant's and Taylor's Bayou and forks and tributaries of both streams, Jefferson Co.

Tex., El Campo—Canals, Etc.—El Campo Irrigation Co will build system of canals and ditches and install irrigation pumping plant. R. H. Hancock, stockholder.

Okla., Vinita—Ditch—E. N. Raycliff soon receives bids open ditch, 6338 ft. long, average depth 3.5 ft., bottom width 6 ft., requiring excavation of 9804 cu.yd H. M. Parsons, Caney, Kan., engr.

Idaho, Cœur d'Alene—Drainage—Land owners along Cœur d'Alene River issued $150,000 bonds to dredge mouth of river for flood prevention.

Utah, Salt Lake City—Drainage—Co. comrs. created drainage district to reclaim 4000 acres land west of Jordan River. Address G. R. Bothwell, 44 South 3rd St., E.

Cal., Hueneme—Dredging—See "Miscellaneous."

Bids Desired

N. Y., Albany—See "Reinforced Concrete."

Ia., Algona—Drainage—Until May 11 by Bd. Supervs., improving D. D. No. 133, involving 3 sections of 6-in. to 36-in. tile, 121,510-ft. in all; 71 intakes and 1 section open work, about 445,630 cu.yd.; and 48 bulkheads; 1 spillway dam, about 45 cu.yd. E. H. Beardsley, co. aud.

Ia., Ft. Dodge—Drain—Until May 10 by Webster Co. for Drain No. 250. About $12,857. J. L. Hanrahan, aud.

Ia., Muscatine—Drainage—Until May 15 by Co. Aud. furnishing and laying about 2650 lin.ft. 18-in. tile and 1600 lin.ft. 16-in. tile in Muscatine-Louisa D. D. No. 13. Elliott & Harman Engr. Co., Peoria, Ill., engrs.

Minn., Owatonna—Ditch—Until May 12 by Steele and Rice Cos., Owatonna, for Judicial Ditch No. 6, consisting of 125,643 cu.yd. excavation and levelling off waste banks. About $18,782. G. A. Ralph, engr. in charge.

Mo., Cape Girardeau—Ditches—Until May 15 by W. A. O'Brien, ch. engr., Little River D. D., for scraper ditches, 4-ft. bottom, average depth 6 ft., 1 to 1 slopes, about 69,000 cu.yd excavation, with 80 acres clearing. I. Randolph, 1827 Continental Bank Bldg., Chicago, cons. engr.

Prices and Contracts Awarded

(★Indicates award of contract)

★N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., let contract dam across Genessee River, near Court St., Rochester, to Combined Constr. Co., Rochester, $321,115. Noted Apr. 19.

★Ind., Bluffton—Ditch—County let contract Abraham Haines Ditch to J. J. Franks, Hicksville, $14,224.

★Ill., Carrollton—(Official)—Drainage—Spankey Drainage and Levee Dist. let contract 3¾-mi. levee and 2¼-mi. ditch to M. J. O'Meara & Son, Beardston, $18,500.

★Ia., Forest City—Drainage—County let contract D. D. No. 77 requiring 20,437 ft. 6-in. to 30-in. tile to Berkland & Littell, Eagle Grove.

★Ia., Hampton—Drainage—Franklin and Hardin Cos. let contract D. D. No. 3 requiring 26,690 ft. 6-in. to 30-in. tile and 40,000 cu.yd. open-ditch work to F. E. Smith, Clarion; Hansen & Christiansen, Northwood, and Hoover Lumber Co., Dallas Center.

★Ia., Pocahontas—Ditches—County let contract 34,530 cu.yd. earth and furnishing and laying 39,317 ft. 6-in. to 26-in. tile in D. D. No. New 14 to McHose Sand and Tile Co., Boone, for tile; Rude & Wold, Pomeroy, for labor; C. R. Lewis, Pocahontas, for open work

★Ia., Sibley—Drainage—County let contract D. D. No. 34 requiring 7122 ft. tile to W. C. Fraser, 411 Hackney Bldg., St. Paul.

★Ia., Spirit Lake—Drain—County let contract Drain No. 40, furnishing and laying 29,600 ft. 5-in. to 24-in. tile, to Cement Products Co., Spencer, for tile; Vigo Mortensen, Terril, for labor.

★Ia., Winterset—(Official)—Drainage—County let contract to H. A. Teget, Webster City, $12,990. Noted Apr. 12.

★Minn., Windom—County let contract Judicial Ditch No. 18 in Cottonwood and various counties to Rude & Wold, Windom, $159,000.

★Mo., Rockport—Drainage—County let contract D. D. No. 1, 85,000 cu.yd. excavation to R. S. Morrow, Omaha.

★Ark., Conway—Drainage—Tupelo D. D. let contract drainage work, including 3 mi. ditching, to Blodgett Constr. Co., 409 Midland Bldg., Kansas City, Kan., $12,000.

★Ark., Ft. Smith—Drainage—City let contract draining Grassy Lake to Sprenkle Co., 603 American Natl. Bank Bldg., Oklahoma, $57,700.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—Real Estate Trust, 40 Court St., plans 6-story, 80x85-ft. manufacturing building, 41 Portland St. About $85,000. Funk & Wilcox, 120 Boylston St., archts.

Mass., Worcester—T. J. Flinn, Waterbury, has purchased in Worcester site and plans iron foundry. About $50,000.

Conn., South Wilmington—G. Hall, Jr., & Co. plans 3-story, 120-160-ft., brick addition.

N. Y., Albany—W. W. Farley, 86 State St., plans 3-story, 68x100-ft. garage. About $50,000. H. Rogers, archt., 467 Broadway, prepared plans.

N. Y., Brooklyn—R. Leoninger, 1044 Park Ave., plans 7-story, 90x160-ft., brick factory, Steuben St. About $180,000. Helmle & Corbett, archts., 100 Montague St., prepared plans.

N. Y., New York—M. F. Longhman, 47 West 34th St., plans 5-story, 100x102-ft. brick garage, 130th St. and Old Broadway. About $150,000. E. J. Moller, archt., 103 Park Ave., prepared plans.

N. J., Paterson—L. Atherton, 91 Jasper St., prepared plans for 4-story, 60x150-ft. mill.

N. J., Perth Amboy—American Smelting and Refining Co. plans 3-story addition. About $80,000. Goldberger & Greisen, archts., 149 New Brunswick Ave., preparing plans.

Pa., Phila.—India Refining Co., Swanson and McKean St., plans 3-story factory. About $100,000. W. C. Furber, archt., 420 Walnut St., prepared plans. Noted Apr. 17.

Pa., Phila.—Pennsylvania Warehouse and Safe Deposit Co., 113 South 3rd St., soon lets contract 8-story, 112x172-ft., brick and concrete warehouse, Delaware Ave. and Water St. Noted Apr. 26.

Pa., Pittsburgh—Macbeth Evans Co., Wabash Bldg., will increase its capital stock from $2,000,000 to $5,000,000, and extend its plant.

Pa., Punxsutawney—Buffalo, Rochester & Pittsburgh Ry. will build 18-stall round house and locomotive repair shop. About $100,000. D. S. Watkins, Du Bois, engr. constr.

Pa., Wheatland—Pennsylvania R.R. plans improvements here, including roundhouse and machine shop with coal bunkers and water tanks. About $150,000. A. C. Shand, Broad St. Station, Phila., ch. engr.

Md., Frostburg—Parker Hosiery Mills & Dye Works purchased site and plans 2-story factory. About $200,000.

Va., Glen Lyn—Appalachian Power Co. plans steam electric plant. About $1,000,000. H. Markle, Bluefield, gen, mgr.

O., Cincinnati—See "Reinforced Concrete."

O., Cincinnati—See "Buildings."

O., Cleveland—Templar Motor Corp., New Guardian Bldg., plans 1-story factory. About $150,000. W. S. Lougee, archt., 500 Marshall Bldg., prepared plans. Noted Apr. 5.

O., Toledo—Toledo Machine & Tool Co., 1736 Don St., preparing plans plant, Dorr and Westwood St. and New York Central R.R. About $500,000.

O., Youngstown—Smith Brewing Co., plans addition to ice plant. About $50,000. W. D. Murray, pres. and gen, mgr.

Mich., Detroit—Bailey, Patterson & Bailey, Rex Arms Apartments, plans carpet cleaning plant. About $50,000. C. K. Porter & Sons, archts., 75 West Eagle St., Buffalo, N. Y., prepared plans.

Mich., Detroit—Detroit Seamless Tube Co., 841 Jefferson Ave., W., soon receives bids for 400 x 700-ft. shop. About $100,000.

Mich., Detroit—Parsons Mfg. Co., 21st and Fort St., plans plant. About $50,000. Esselyn & Murphy, archts., 206 New Telegraph Bldg., preparing plans.

Ill., Chicago—J. A. Brady Foundry Co., West 35th and South Ashland Ave., purchased 266 x 449-ft. site and plans group of buildings, including 150 x 360-ft. foundry and 90 x 135-ft. cleaning building. About $300,000.

Industrial Works (Continued)

Ill., Chicago—J. J. Harrington, 38 South Dearborn St., plans enlarging factory. About $50,000. Eckland, Fugard & Knapp, archts., 111 West Monroe St., preparing plans.

Ill., Chicago—O. Heineman Co., 2701 Armitage Ave., plans 3-story, 125x215-ft. factory. About $160,000. W. L. Hoffman, Jr., archt., 144 West 47th St., preparing plans.

Ill., Chicago—Pyott Co., 955 Carroll Ave., plans 1-story, 80x150-ft. foundry and machine shop. About $75,000. Davidson & Weiss, archts., 53 West Jackson Blvd., preparing plans.

Wis., Milwaukee—Wisconsin Mfg. Co., 709 Germania Blvd., plans 1-story, 114 x 228-ft. addition. About $60,000. C. H Jones, pres.

Wis., West Allis—Milwaukee Corrugating Co., 36th Ave. and Burham St., retained Klug & Smith, archts. and engrs., Milwaukee, to prepare plans for 120 x 250-ft. corrugating shop. L. Kuehn, pres.

Neb., Hastings—See "Railways."

Mo., St. Louis—Wagner Electric & Manufacturing Co., New Bank of Commerce Bldg., increased its capital stock from $2,000,000 to $5,000,000, and will build 2 additions to its plant. About $75,000.

Ark., Ft. Smith—Lesser-Goldman Cotton Co., 112 South Main St., plans warehouse and compress. About $75,000.

Tex., Dallas—Southwestern Tire & Repair Mfg. Co. plans plant to manufacture automobile tires and tubes. About $80,000. R. L. Cameron, pres.

Nev., Tuscarora—Tuscarora-Nevada Mines Co. plans mill. About $100,000.

Ore., Portland—See "Reinforced Concrete."

Cal., Hueneme—See "Miscellaneous."

Ont., Hamilton—National Abrasive Co. purchased site and is preparing plans for plant. About $75,000.

Ont., London—Penmans, Ltd., Paris, plans woolen mills. About $50,000.

Sask., Moose Jaw—Robin Hood Mills Co. preparing plans addition. About $100,000. Noted Apr. 5.

Bids Desired

N. Y., New York—See "Reinforced Concrete" under Albany, N. Y.

Prices and Contracts Awarded

(★Indicates award of contract)

★Mass., Boston—Cox Confectionery Co., 116 North St., let contract 6-story, 75x100-ft. factory to Clark & Lee, 201 Devonshire St. Noted Apr. 5.

★Mass., New Bedford—Passaic Cotton Co. let contract 3-story, brick and steel mill to H. W. Smith, Cleveland. Noted Apr. 26.

★Conn., Waterbury—Waterbury Clock Co., Cherry Ave., let contract 7-story, 73x114-ft. addition to Sperry Engr. Co., 82 Church St., New Haven.

N. Y., Brooklyn—See "Reinforced Concrete."

★N. Y., East Salamanca—Buffalo, Rochester & Pittsburgh Ry. let contract improvements, including machine and erecting shops, transfer table, blacksmith shop and storehouse to Westinghouse, Church & Kerr Co., 37 Wall St., New York, $500,000.

★N. Y., New York—Dept. Pub. Charities, Municipal Bldg., let contract elevator storehouse under Queensboro Bridge on Blackwells Island to A. Winternitz, 103 Park Ave., $400,000.

★N. Y., New York—Straight Edge Distributing Corp., 102 Lawrence St., let contract 4-story, 75 x 100-ft., brick bakery to P. F. Harpnett, 928 Peeler Ave.

★N. J., Elizabeth—See "Reinforced Concrete."

N. J., Plainfield—See "Reinforced Concrete."

★Pa., Philadelphia—R. A. Heyman & Bro., 1420 South Pennsylvania Sq., let contract auto showroom and garage to Turner Concrete Steel Co., 1713 Sansome St., $50,000.

★Ind., Indianapolis—See "Reinforced Concrete."

★Wis., Racine—Mitchell Motors Co. let contract 4-story, rein.-con. and brick warehouse and shipping room to Raulf Co., 53 Patton Bldg., Milwaukee. About $100,000.

★N. D., Grand Forks—McKinney-Fuller Motor Co. let contract plant to Northern Constr. Co., Elkhart, Ind., $60,000.

★Ont., Chatham—See "Reinforced Concrete."

★Ont., Ford City—Canadian Lamp & Stamping Co. let contract factory to Wells & Gray, Windsor, $50,000.

★Ont., London—Ford Motor Co. let contract addition to Wells & Gray, Bank of Commerce Bldg., Windsor, $150,000.

★Ont., Toronto—See "Reinforced Concrete."

★B. C., Vancouver—Canadian Pacific Ry. let contract extending shed No. 1, foot of Burrard St., to Davies Constr. Co., Credit Foncier Bldg., $75,000.

BUILDINGS

Proposed Work

Me., Hallowell—Central School—State School for Girls plans 3-story. About $60,000. H. S. Coombs, Masonic Bldg., Lewiston, archt.

Me., Lewiston—Armory—State voted appropriation of $80,000 to build, 1- and 2-story, 70x100-ft. G. Presson, State House, Augusta, adj.-gen. H. S. Coombs, 11 Lisbon St., Lewiston, archt.

N. H., Durham—New Hampshire College plans, New Commons Bldg., 3-story, 62x132-ft., brick. About $100,000. E. T. Huddleston, Dept. Drawing, c/o college, prepared plans.

Vt., Randolph—Hotel—Chandler Estate plans, 3-story. About $1,000,000. N. V. Frohling & C. Volz, archts., 2 West 45th St., New York, soon receive bids.

Mass., Gardner—School—Town plans. About $60,000. F. I. Cooper, archt., 33 Cornhill, Boston, preparing plans.

R. I., Providence—College Buildings—Providence College rejected bids, 3- and 4-story. About $2,500,000. M. Sullivan, 100 Boylston St., archt.

R. I., Providence—Hotel—Roger Williams Hotel Corp. prepared plans, 15-story, to be known as "The Roger Williams." About $1,000,000. C. R. Easton, 902 Turks Head Bldg., interested.

N. Y., Albany—Auditorium and Parish House—Cathedral of Immaculate Conception, 12 Madison Pl., plans, 3-story, 88 x 90-ft. About $80,000. T. L. Gleason, archt., 45 Maiden Lane, prepared plans.

N. Y., Buffalo—Parish House—Westminster Presbyterian Congregation plans, 3-story. About $50,000. Green & Wicks, archts., 110 Franklin St., prepared plans.

N. Y., Buffalo—Nurses' Home—Buffalo General Hospital, 100 High St., plans. About $75,000. Green & Wicks, archts., 110 Franklin St., prepared plans.

N. Y., Granville—Hotel—Central House plans, 4-story, 48x118-ft. wing, 20x41-ft. E. M. Copps, prop. H. Rogers, 467 Bway., Albany, archt.

N. Y., Greece—School—School Dist. No. 1 plans, 2-story, 100x150-ft. About $75,000. C. C. Ade, archt., East Ave., prepared plans.

N. Y., Lockport—Hospital—Bd. Supervs. soon lets contract. About $100,000.

N. Y., New York—Club—University Club, 5th Ave. and 54th St., plans, 9-story, 52x100x25-ft., brick and stone addition, 6-8 West 55th St. T. Rhacker, pres. McKim, Mead & White, archts., 101 Park Ave., prepared plans.

N. Y., New York—Exchange and Office—New York Telephone Co., 15 Dey St., plans, 6-story, brick, and 5-story, brick side extension, 366-376 East 150th St. About $100,000. McKenzie, Voorhees & Gmelin, archts., 1123 Broadway, prepared plans.

N. Y., New York—Theater—Norworth Theater, 1482 Broadway, plans, 1-story, 50x100-ft. About $70,000. P. Pereira, archt., 150 Nassau St., prepared plans.

N. Y., Syracuse—Y. W. C. A. has had plans prepared for building, East Onondaga St. About $180,000.

N. Y., Syracuse—Hospital—Hospital of Good Shepherd prepared plans addition. About $100,000.

N. Y., Walden—Y. M. C. A. plans building on Main St. About $50,000.

N. J., Bridgeton—High School—Bd. Educ. revising plans. About $125,000.

N. J., Newark—Court House—County plans 8-story addition, Springfield Ave. and High St. M. Shoemaker, 810 Broad St., archt.

★N. J., Newark—High School—Bd. Educ. let contract addition to East Side High School to F. Kilgus, 13 South 6th St., $98,229.

N. J., Newark—Schools—Bd. Educ. prepared plans, 4-story, brick and steel, on 15th St. and 3-story brick and steel on Speedway Ave. About $200,000 and $77,000, respectively.

N. J., Newark—Theater—F. G. Hall, 1583 Bway., New York, plans, on Broad St. About $350,000. P. Vivarttas, archt., 110 4th St., Hoboken, preparing plans.

N. J., North Bergen—Mausoleum—New York & New Jersey Mausoleum Assn. plans, 2-story, 75x150-ft. granite and rein.-con., on Hudson Blvd. About $150,000. C. Fall, archt., 1400 Washington St., Hoboken, preparing plans.

N. J., Ocean City—Hotel—See "Reinforced Concrete."

N. J., Point Pleasant—School—Boro. sold $55,000 bonds to build school.

N. J., Weehawken—School—Bd. Educ. of Union Hill plans, Hudson Ave. and 2nd St. About $200,000.

Pa., Allentown—Theater and Store—Channock & Senderowitz, 413 Hamilton St., plans, rein.-con., steel and terra cotta, 10th and Hamilton St. About $300,000. D. Levy, Buckley Bldg., archt.

Pa., Bethlehem—Schools—City election soon to vote on $225,000 bonds to build schools.

Pa., Butler—Grade School—Bd. Educ. Butler Twp. plans, 2-story, 74x127-ft. About $60,000. J. W. Ketterer, archt., Butler Co. Natl. Bk. Bldg., preparing new plans.

Pa., Clarks Summit—Almshouse—Scranton P. Dist., 624 Connell Bldg., Scranton, plans 2-st. addition. About $200,000. D. H. Morgan, Comm. Bldg., Scranton, archt.

Pa., Claysburg—High School—Bd. Educ. purchased site and will soon receive bids. About $50,000.

Pa., Easton—Nurses' Home—Easton Hospital Assn., 248 Spring Garden St., plans, 3-story, 100x230-ft. About $150,000. W. Michler, archt. Drake Bldg., soon receives bids.

Pa., Elizabethtown—Memorial Bldg.—Masonic Home, Grand Lodge of Pennsylvania, plans 3-story, 71x214-ft. addition. About $90,000. E. F. Urban, archt., Woolworth Bldg., Lancaster, soon receives bids.

Pa., Enola—High School—Bd. Educ. plans, 2-story, 80 x 146-ft. About $100,000. C. H. Lloyd, archt., Telegraph Bldg., preparing plans.

Pa., Glenside—Club House—Lu Lu Temple Country Club plans. About $60,000. G. Cox, Lu Lu Temple, 1337 Spring Garden St., Phila., member bldg. com

Pa., Lewistown—Y. M. C. A. Bldg. Comn. rejected bids for building. About $100,000.

★Pa., Nesquehoning—High School—School Bd. let contract to A. J. Breslin, Summit Hill, $68,575. Noted Apr. 12.

Pa., Norristown—Y. M. C. A. plans building. About $150,000.

★Pa., Phila.—Bank—Northwestern Natl. Bank let contract, granite, marble and steel, on Broad St., to A. R. Raff Constr. Co., 1635 Thompson St., $164,000. Noted Apr. 12.

Pa., Phila.—Club—American Federation of Musicians, Local No. 77, 10 South 18th St., plans, 3-story, 118-20 North 18th St. M. Hirschberg, 127 North 55th St., and F. E. Hahn, 1112 Chestnut St., archts., preparing plans.

Pa., Shamokin—Theater—Chamberlain Amusement Co., 14-16 West Independence St., plans, 1-story, 75 x 125-ft. About $90,000. W. H. Lee, archt., Dime Bank Bldg., preparing plans.

Pa., Swissvale—High School—Bd. Educ. soon lets contract, 3-story, 130 x 190-ft., brick, steel and rein.-con. About $200,000 C. H. Lloyd, Telegraph Bldg., Harrisburg, archt. Noted Apr. 26.

★Pa., Upper Darby—High School—Bd. Educ. let contract to Butz & Galder, Allentown, $133,231. Noted Apr. 26.

Pa., Vandergrift—High School—Bd. Educ. plans, 2-story. About $100,000. W. G. Eckles archt., Lawrence Savings & Trust Bldg., New Castle, prepared plans.

Del., Wilmington—Club House—Loyal Order of Moose having plans prepared by J. D. Thompson, archt., Wilmington, 5-story, 50 x 100-ft., brick and stone. About $100,000.

Del., Wilmington—Y. M. C. A. plans 5-story, 87x150-ft. building. About $250,000. E. Canby May, archt., Du Pont Bldg., soon receives bids.

Md., Baltimore—Lodge and Store—Knights of Pythias plan. 4-story, 82x150-ft. About $100,000. C. N. Fritz, archt., 1523 Munsey Bldg., preparing plans.

Md., Baltimore—School, Assembly Hall and Gymnasium—Park School plans, 2½-story, 350x350-ft. About $75,000. Smith & May, archts., 1133 Calvert Bldg., soon receive bids.

Va., Richmond—Grace St. Covenant Presbyterian Congregation plans, 1-, 2- and 3-story, 130x150-ft. About $100,000. Ferguson, Calrow & Wrenn, archts., Norfolk, revising plans.

W. Va., Moundsville—Grade School—Bd. Educ. plans election in May to vote on $165,000 bonds to build 4 grade schools. E. Bates, archt., Franzheim-Schmulbach Bldg., Wheeling, prepared plans.

Fla., Miami—Store and Office—Livermore Investment Co. preparing plans, 6-story. About $100,000.

Miss., Tupelo—Hotel—Tupelo Hotel Co. retained X. A. Kramer, Magnolia, to prepare plans. About $60,000. Bids will soon be received.

La., New Orleans—Store—Maison Blanche Dept. Store plans. About $500,000. E. Weil, archt., Whitney Central Bldg., preparing plans.

Tenn., Knoxville—Auditorium and School—City to vote July 5 on $150,000 bonds to build auditorium and $250,000 bonds to build schools. J. B. McCalla, city engr.

Tenn., Knoxville—See "Water-works."

O., Canton—Grade School—Bd. Educ. receiving bids about May 10. Cost $100,000. C. C. & A. L. Thayer, Commercial Bldg., New Castle, Pa., archts.

O., Celina—Parochial School—Immaculate Conception Congregation plans 2-story, 67x135-ft. About $60,000. A. de Curtins, archt., 502 Opera House Blk., Lima, soon receives bids. Noted Apr. 26.

O., Cincinnati—Theater—Palace Amusement Co., Family Theater, recently incorporated with $350,000 capital stock, plans. W. E. McElfatrick, 701 7th Ave., New York, archt.

Buildings (Continued)

O., **Deshler**—(Official)—School—City defeated $60,000 bonds to build high school. Noted Apr. 12.

O., **Fremont**—Church—St. John Lutheran Congregation prepared plans. About $60,000.

O., **Portsmouth**—Church—United Brethren Congregation plans, 1-story, 85x107-ft. About $50,000. DeVoss & Donaldson, archts., 1st Natl. Bank Bldg., prepared plans. Noted Apr. 19.

O., **Youngstown**—Office—Brier Hill Steel Co. plans. About $250,000.

Ind., **Indianapolis**—Cathedral—Ancient Accepted Scottish Rite of Masons, 3115 North Illinois St., plans, 11-story, 187x195-ft. About $1,500,000. Robush & Hunter, archts., 428 American Cantral Life Bldg., prepared plans.

Ind., **Vincennes**—Bank and Office—German Natl. Bank plans, 6-story, 40x130-ft. About $75,000. J. W. Gaddis, archt., 7th St. and Broadway, preparing plans.

Mich., **Iron River**—Schools—City voted $60,000 bonds to build schools.

Mich., **Midland**—Community Building—Midland Community Center plans, 2-story, 120 x 140-ft. About $50,000. Cowles & Nutscheller, archts., 114 North Washington St., Saginaw, revising plans.

Mich., **Stambaugh**—High School—Bd. Educ. plans, 3-story, 130x167-ft. and 14x36-ft. About $125,000. D. Hubert, Spies Bldg., Menominee, archt. Noted Apr. 5.

Ill., **Rockford**—Office—Port Bldg Co. purchased site on West State St. for office building.

Ill., **Springfield**—Exchange and Office—Central Union Telephone Co., 422 South 5th St., plans. About $100,000.

Wis., **Kenosha**—Hotel—Maxine Carleton Hotel plans, 8-story, 61x100-ft. About $250,000. White, White & White, archts., Pub. Ser. Bldg., will receive bids about June 1.

Wis., **Milwaukee**—School—City plans to spend $400,000 for improving schools this year.

Ia., **Chariton**—Schools—City defeated $50,000 bond issue to build schools.

Ia., **Corwith**—School—City voted $50,000 bonds to build school.

Ia., **Des Moines**—Hotel—J. E. Tone, 450 29th St., and G. Nollen, 402 29th St., plan 12-story, on site of old Savoy Hotel.

Ia., **Des Moines**—(Official)—Temple—Za Ga Ziz Temple, of Mystic Shrine, will let contract in fall, 3-story, brick. About $200,000. C. C. Deering, 622 9th St., Potentate, Keffer & Jones, 610 Youngman Bldg., archts. Noted Apr. 17.

Ia., **Dunlap**—Schoolhouse—City voted $75,000 bonds to build new schoolhouse.

Ia., **Iowa City**—Schools—City sold $50,000 bonds to build schools.

Ia., **Mason City**—School—City will hold election May 5 to vote on $100,000 bonds to build school.

Ia., **Nevada**—Home—County voted $75,000 bonds to build home. F. E. King, co. aud.

Ia., **Shenandoah**—High and Grade Schools—City voted bonds to build high and grade school to cost $110,000 and $40,000 respectively. Trunk & Gordon, archts., Donnell Court Bldg., St. Joseph, Mo., preparing plans.

Ia., **Waterloo**—Temple—Masonic Temple Assn. plans, 4-story, brick and stone. About $100,000.

Minn., **Minneapolis**—Church—State Bd. Minnesota Baptist convention approved plans church at University of Minnesota. Cost, $100,000. E. R. Pope, 405 Evanston Bldg., in charge of plans.

Minn., **Minneapolis**—See "Reinforced Concrete."

Minn., **New Ulm**—Parochial School and Church—St. Mary's Congregation plans, 1½-story. About $85,000. A. C. Fleischbeim, archt., 660 Gilfillan Bldg., St. Paul, prepared plans.

Minn., **Pine Island**—High and Grade School—Independent School Dist. No. 77 plans, 2-story, 61x110-ft. About $50,000. Stebbins & Haxby, archts., Auditorium Bldg., Minneapolis, preparing plans.

Minn., **Pipestone**—High School—Bd. Educ. plans. About $150,000.

Minn., **St. Paul**—Hotel—Lincoln Apartment Hotel plans, 13-story, Lincoln and Oakland Aves. About $300,000. W. I. Brackett, 1115 Merchants Natl. Bank, interested.

Kan., **Hutchinson**—High School—Bd. Educ. plans, brick, stone and concrete. About $128,000. W. E. Hulse & Co., archts., 1st Natl. Bank Bldg., preparing plans. Noted Apr. 26.

Kan., **Independence**—High School—Bd. Educ. plans election to vote on $300,000 bonds to build high school.

Kan., **McPherson**—School—Bd. Educ. plans, 3-story, brick, terra cotta and concrete. About $50,000. Markgraf & Mampe, 413 Ridge Bldg., Kansas City, Mo., archts.

Kan., **Salina**—Temple—Masonic Temple plans 3- or 4-story addition. About $100,000.

Neb., **Hastings**—Terminal and Station—See "Railways."

Neb., **Lincoln**—Office—Folson Bros. Co., 1423 O St., plans, 5-story, 50x142-ft., brick, stone and terra cotta. About $80,000. Kiske & Meginnis, 528 Bankers Life Bldg., archts.

Neb., **Omaha**—Theater and Office—Strand Amusement Co. will build, at 15th and Douglass St. About $250,000. A. H. Blank, Des Moines, pres.

Neb., **York**—Hotel—York Hotel Co. plans 6-story, 90x120-ft. F. W. & E. B. Clarke, archts., 683 Brandeis Bldg., Omaha, revising plans.

Neb., **York**—(Official)—School—Bd. Educ. soon lets contract. About $225,000. Berlinghoff & Davis, S. L. M. Bldg., Lincoln, archts. Noted Apr. 12.

S. D., **Brookings**—Armory and Gymnasium—State Bd. Regents, Pierre, plans. About $80,000. H. F. Ellerbe, Endicott Bldg., St. Paul, archt.

S. D., **Wessington Springs**—School—City plans election to vote on $50,000 bonds to build school.

N. D., **Agricultural College**—Science Hall—Agricultural College plans, 4-story, 60x90-ft. About $60,000. W. G. Ward, c/o College, archt.

Mo., **St. Louis**—Convent—Sisters of Mercy, 307 South Euclid Ave., plan, 4-story, 175x250-ft., and 2 wings, 3-story, 32x140-ft. About $250,000. Barnett, Haynes & Barnett, archts., Century Bldg., soon receive bids.

Mo., **St. Louis**—School—Bd. Educ. plans to build Penrose School, 2-story, 80x240-ft. About $245,000. R. P. Milligan, archt., c-o. Bd. Educ., prepared plans.

Mo., **Warrensburg**—High School—City defeated $70,000 bonds to build high school. Noted Apr. 5.

Ark., **Pine Bluff**—High School—Bd. Educ. sold $165,000 bonds to build high school.

Tex., **Ft. Worth**—Church—1st Presbyterian Congregation having plans prepared. About $100,000.

Okla., **Muskogee**—Auditorium—State School for Blind plans. About $50,000. C. W. Dawson, Iowa Bldg., archt.

Idaho, **Caldwell**—Hotel—Caldwell Milling & Elevator Co. plans. About $90,000. B. N. Holt, mgr.

Cal., **Alhambra**—Auditorium—City election May 15 to vote on $75,000 bonds to build high school auditorium. Marsh & Howard, Broadway Central Bldg., Los Angeles, archts.

Bids Desired

Conn., **Hartford**—Until May 19 by Salvation Army, 330 Trumbull St., for 4-story building.

N. Y., **Amsterdam**—School—Until May 16 by Bd. Educ., 2-story, brick. About $80,000. W. Potter, 1 Union Sq., New York, archt.

N. Y., **Buffalo**—(Official)—School—Until May 15 by J. F. Malone, comr. of parks and pub. bldg. for school, Dist. No. 62, Minnesota Ave.

N. Y., **New York**—Church—Until May 7 by Ft. George Presbyterian Church Society, c/o New York Presbyterian Church Extension Com., 156 5th Ave., 2-story, 47x85-ft., brick, at 186th St. and St. Nicholas Ave. Crow, Lewis & Wickenhoefer, 200 5th Ave., archts.

N. J., **Englewood**—Until May 15 by Bd. Educ. for Lincoln High School, Englewood Ave. Guilbert & Betelle, 665 Broad St., Newark, archts.

N. J., **Newark**—School—Until May 21 by Bd. Educ., 2-story addition to Madison School. About $80,000.

Pa., **Phila**—Store—Until May 5 by Bonwit Teller & Co., Chestnut and 13th St., 10-story, at 15th and Chestnut St., brick, stone, terra cotta and concrete. Le Roy B. Rothschild, archt., Chestnut and 13th St., prepared plans.

O., **Akron**—Laboratory—(Official)—Until May 8 by Bd. Dirs. of Municipal University at office of dean of Eng. College for Mechanical Laboratory. C. R. Olin, clk.

O., **Lewiston**—(Official)—School—Until May 5 by Bd. Educ. Washington Twp., Rural School Dist., Logan Co., C. Sheets, archt., 133 North High St., Columbus, prepared plans.

O., **Portsmouth**—Grade School—Until May 11 by W. C. Hazlebach, clk., bd. educ. About $60,000. Ritter & Bates, 45 1st Natl. Bank Bldg., archts.

Ia., **Sioux City**—High School—Until May 10 by Bd. Educ., 2-story, 104x132-ft., brick and stone. About $85,000. Beuttler & Arnold, 609 Security Bldg., archts. Noted Apr. 26.

S. D., **Lake Andes**—Court House—Until May 22 by Charles Mix Co., 2-story, brick, stone and concrete. About $150,000. J. Lindquist, chn. bd.

Okla., **Tulsa**—(Official)—City Hall—Until May 24 by Bd. Comrs. F. Newkirk, city aud.

Ore, **Salem**—Hospital—Until about May 20 by Salem Hospital Assn., 3-story, 42x166-ft., with 42x52-ft. wing. About $125,000. R. F. Tegen, archt., Morgan Bldg., Portland, preparing plans.

Prices and Contracts Awarded

(★Indicates award of contract)

★Mass., **Fall River**—Theater—Lyric Theater, c/o J. B. Parent, 1336 Pleasant St., will make alterations and additions, by day labor. About $100,000.

★R. I., **Providence**—Theater—A. A. Spitz let contract, South Main St., to C. L. Bigney Constr Co., 898 Westminster St., $200,000.

★Conn., **New Haven**—Drill Hall—Yale University let contract, High St., to Sperry Engr. Co., 82 Church St., $85,000.

★Conn., **Norwalk**—Hospital—City let contract, brick and rein.-con., to T. J. Pardy Constr. Co., 747 Main St., Bridgeport, $50,000.

★N. Y., **Gloversville**—School—City let contract, brick, to G. T. Kelly, 22 John St., Yonkers, $84,000.

★N. Y., **New Rochelle**—High School—Bd. Educ. let contract addition to J. M. Voss, 15 Warburton Ave., Yonkers, $175,000.

N. Y., **Plattsburg**—City Hall—City received low bids, 2-story, 80x112-ft., brick, stone and steel, from A. E. Stephens Co., 318 Main St., Springfield, Mass., $174,800, and Norcross Bros. Co., 103 Park Ave., New York, $182,000.

★N. J., **Cape May**—High School—Bd. Educ. let contract to W. B. Porch, Sheen Bl., Atlantic City, $60,000.

N. J., **Jersey City**—High School—Bd. Educ. received low bid addition to Lincoln High School from M. T. Connolly Contr. Co., 238 17th St., $113,994.

★Pa., **Ambridge**—School—Bd. Educ. let contract, 5th and Pine St., to R. B. McDanel Co., New Brighton, $50,000.

★Pa., **Phila.**—Passenger Station—Pennsylvania R.R. let contract addition, Chelton Ave., to F. A. Havens & Co., 845 North 19th St., $50,000.

★Va., **Pulaski**—Bank, Office and Store—Pulaski Natl. Bank let contract to E. M. Herringdon & Co., Roanoke, $53,264.

★Fla., **Tampa**—Club—La Unione Italiano Society let contract to Bates-Hudnall-Jetton Co., $57,673.

★La., **New Orleans**—Business Block—McElwee & Wiedman, Corsicana, let contract to J. E. Metcalf, $50,000.

★O., **Cleveland**—Hotel—Terminal Hotel Co. let contract to Thompson, Starrett Co., 175 West Jackson Blvd., Chicago, $1,500,000.

★Mich., **Pigeon**—School—Bd. Educ. let contract to F. Trier, 1973 Court St., Saginaw, $50,000.

★Ill., **Chicago**—Hotel—S. T. Cooper, Conway Bldg., let contract, 5301-15 Hyde Park Blvd., to J. A. Hammett, 327 South La Salle St., $1,000,000. Noted Apr. 5.

★Minn., **Duluth**—School—Bd. Educ. let contract Lester Park School to Jacobson Bros., Columbia Bldg., $110,000.

★Kan., **Eldorado**—High School—Bd. Educ. let contract addition to Sharp Bros., $60,000.

★Neb., **Omaha**—Business—C. R. Sherman let contract 2-story, 149x222-ft., to F. P. McClure, 5416 Maple Ave., St. Louis, $100,000.

★S. D., **Redfield**—Hospital—State Bd. Charities and Corrections, Mitchell, let contract, at School for Feebleminded, to E. Bjorklund, White Bear, $150,000.

★Mo., **Kahoka**—School—Bd. Educ. let contract to J. T. Williford, Kahoka, $50,000.

★Mo., **Kansas City**—Hospital—Grace Hospital Bd. let contract, brick, stone and concrete, to L. Crosby & Son, 517 Massachusetts Bldg., $100,000.

★Tex., **Dallas**—Nurses' Home and Training School—Baptist Memorial Sanitarium let contract to Buchanan & Gilder, 1309 Southwestern Life Bldg., $200,000.

★Tex., **Waco**—Sanitarium—Central Texas Baptist Sanitarium let contract to J. S. Harrison, Waco, $100,000.

N. M., **Gallup**—See "Reinforced Concrete."

★Ore., **Portland**—Lodge—Portland Lodge 291, Loyal Order of Moose, let contract 3-story, brick, 4th and Taylor St., to E. B. White, Lumber Exchange Bldg., Portland.

★Que., **Montreal**—Church—See "Structural Steel."

★Ont., **Ottawa**—See "Reinforced Concrete."

★Ont., **Toronto**—Bank—Bank of British North America let contract to Robertson & Sons, Confederation Life Bldg., $150,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Coal Weighers—Mass., Boston—Bureau Yard and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans, Navy Yard.

Post Office—N. J., East Orange—J. A. Wetmore, superv. archt., Treas. Dept., Wash., rejected bids. Noted Apr. 26.

Turbo-Generators, etc.—Wash., D. C.—Bureau Yard and Docks (F. R. Harris, ch.), Navy Yard, Wash., preparing plans turbo-generators for various points, also air compressors. About $300,000.

Foundry Building—Va., Norfolk—Bureau Yards and docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans, Navy Yard. About $370,000.

Federal Government Work (Continued)

Machine Shop—Va., Norfolk—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans. About $550,000.

Post Office—La., Alexandria—J. A. Wetmore, superv. archt., Treas Dept., Wash., rejected bids. Noted Apr. 19.

Cranes—Wash., Bremerton—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans ship-building crane at Puget Sound Navy Yard. About $200,000.

Bids Desired

Fence and Gateways—Pa., Ft. Mifflin—(Phila. P. O.)—Until May 7 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., at Naval Ammunition Depot, Ft. Mifflin.

Bridge—Wash., D. C.—Until May 24 by Dist. Comrs., Room 509 Dist. Bldg., 7-span steel plate girder highway bridge, abutments, piers and approaches on Benning Rd.

Buildings—Wash., D. C.—Until May 7 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., contagious wards, at naval hospital reservations, Newport, R. I.; Portsmouth, N. H., and Great Lakes Ill., 9 in all.

Stable—La., New Orleans—Until May 7 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., at Naval Station, New Orleans.

Towers—La., New Orleans—Until May 23 by Lighthouse Inspector, New Orleans; advertised in this issue.

Lookout System—Mich., Port Huron—Until May 10 by J. A. Wetmore, superv. archt., Treas. Dept., Wash., in U. S. custom house and post office.

Post Office—Ill., Marion—Until June 7 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Post Office—Ill., Olney—Until June 5 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Post Office—Minn., Bemidji—Until May 31 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Levee Work—Mo., St. Louis—Until May 14 by Mississippi River Comn., 1311 International Life Bldg., St. Louis, 259,100 cu.yd. earthwork in Sny Island Levee D. D., Illinois.

Levee Work—Mo., St. Louis—Until May 18 by Mississippi River Comn., 1311 International Life Bldg., St. Louis, 100,000 cu.yd. earthwork in Hunt D. D., Illinois.

Post Office—Tex., Orange—Until June 6 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Post-Office—Okla., Durant—Until May 31 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Prices and Contracts Awarded
(★Indicates award of contract)

Steerage Barracks—Me., Portland—J. A. Wetmore, superv. archt., Treas. Dept., Wash., received low bids, Portland Quarantine Station, from Mahoney Constr. Co., $63,918, and Forgione & Romano Constr. Co., $64,983, both of Portland. Noted Apr. 5.

Post-Office—N. H., Berlin—J. A. Wetmore, superv. archt., Treas. Dept., Wash., received low bids, (a) limestone, (b) sandstone, from West Chester Eng. Co., White Plains, N. Y., (a) $49,000, (b) $50,000; W. H. Fissell & Co., 1133 Broadway, New York, (a) $49,900, (b) $50,900.

★Storehouse, Etc.—N. Y., New York—Bureau Yards and Docks, Navy Dept., Wash., let emergency contract, storehouse for supply depot and storehouse for provisions and clothing depot at Navy Yard, to Turner Construction Co., 244 Madison Ave., at cost plus 10%. Work estimated at $1,000,000 and $500,000 respectively.

★Shrinking Pit—Wash., D. C.—Bureau Yards and Docks, Navy Dept., let contract, in gun shop at Navy Yard, to Foundation Co., 233 Broadway, New York, $250,000, on cost and percentage basis.

Hydrogen Plant—Va., Hampton—Ch. Signal Officer, U. S. Army, Wash., received low bid, hydrogen generating and compressing plants at Langley Field, from Improv. Equipment Co., 60 Wall St., New York, $297,000.

Hydraulic Pumps and Accumulators—Va., Norfolk—Bureau Yard and Docks, Navy Dept., Wash., received bids, for Navy Yards at Phila. and Norfolk, (a) Norfolk, Government specifications, (a1) bidders specifications, (b) Phila., Government specifications, (b1) bidder's specifications, from Almirall Co., 1 Dominick St., New York, (a1) $56,544, $51,144, (b1) $29,562, $26,187; R. D. Wood & Co., 400 Chestnut St., Phila., (a) $86,900, (a1) $76,000, (b) $44,000, (b1) $38,700; E. J. Smith, 50 Church St., New York, (a) $78,630, $67,260, (a1) $71,640, $60,640, (b) $41,240, $55,470, (b1) $56,200, $59,340. Noted Apr. 12.

★Buildings—S. C., Port Royal—Bureau Yards and Docks, Navy Yard, Wash., let emergency contract temporary buildings at Naval Station, to G. A. Fuller Co., Munsey Bldg., Wash., at cost plus 10%.

Piers, Etc.—Fla., Pensacola—Bureau Yards and Docks, Navy Dept., received low bids concrete piers, reconstruction of existing pier, concrete drainage culvert, timber bulkhead, fill and concrete pavement at Navy Aeronautic Station, from H. Monk, 304 West Gregory St., Pensacola, $79,850, Mayby & Owens Co., Tampa, $46,400; C. H. Turner Co., 30 East Garden St., Pensacola, $138,414. Noted Apr. 5.

Post Office—O., Fremont—J. A. Wetmore, superv. archt., Treas. Dept., Wash., received low bids, Apr. 26, (a) limestone, (b) sandstone, from G. W. Stiles Constr. Co., Rookery Bldg., Chicago, (a) $99,900, (b) $100,400; C. Kanzler & Son, Evansville, Ind., (a) $101,995.

★Stone Riprap—Mich., Harbor Beach—U. S. Engr. Office, Detroit, let contract furnishing and placing, along lake face of main and south breakwaters, to T. L. Durocher & Co., Box 1000, Marquette, $157,000. Noted Apr. 26.

Dragline Excavators—Colo., Denver—U. S. Rec. Ser. let contract 4 dragline excavators to Bucyrus Co., South Milwaukee, $17,600 ea. for delivery in January or February, 1919, or $18,000 to $100,000 ea. for delivery in October and November, 1917. Noted Apr. 12.

★Post Office—N. M., Las Cruces—J. A. Wetmore, superv. archt., Treas. Dept., Wash., let contract to Latimer & Benning, Massachusetts Bldg., Kansas City, Mo., $88,743. Noted Apr. 26.

MISCELLANEOUS

Proposed Work

Crane, etc.—N. Y., New York—(Official)—T. J. Pope, 59 Pearl St., is in the market for an 8-wheel locomotive crane, standard gage and 1 with magnetic attachment desired.

Garbage Disposal Plant—N. J., Arlington—Boro. Council plans to install, using Imhoff system. T. F. Bowe, East Rutherford, engr.

Retaining Wall—N. J., Bayonne—Central R.R. of New Jersey plans along right-of-way from 44th to 46th St. About $17,000. A. E. Owen, 143 Liberty St., New York, ch. engr.

Garbarge-Disposal Plant—N. J., Paterson—Bd. Pub. Wks. will install, 50 tons capacity. H. Hardes, engr.

Garbage Plant—Pa., Newcastle—City plans to install. About $30,000. J. M. Hamilton, dir. pub. safety.

Subway—W. Va., Elm Grove—Co. Comrs. having plans prepared by W. O. McCluskey, co. engr., subway at tracks of Baltimore & Ohio R.R.

Engineering Instruments—S. C., Columbia—(Official)—J. R. Pennell, state highway engr., received no bids, Apr. 21. Noted Apr. 19.

Marine Ways—Ala., Mobile—Harrison Bros., Palmetto St., will build marine ways on east side of river opposite foot of St. Louis St., consisting of 3 separate ways with capacity of 200, 300 and 600 tons, respectively. Plans approved by Government. About $75,000.

Pipe Line—La., Shreveport—W. M. McCormick, Shreveport, plans pipe line from Shreveport to New Orleans, 45 mi.

Parks and Playgrounds—Tenn., Knoxville—City to vote July 5 on $50,000 bonds to lay out parks and playgrounds. J. B. McCalla, city engr.

Garbage Crematory—Ky., Ludlow—(Official)—City plans. W. R. Purcell, engr.

Elimination Grade Crossings—Ind., Ft. Wayne—City rejected bids, Hanna St.

Stadium—Mich., Flint—City plans on Moon Island. Surveys made. About $115,000. E. C. Shoecraft, city engr.

Transmission Line—Wis., Knapp—Wisconsin-Minnesota Light and Power Co., controlled by American Public Utilities Co., will install transmission line in Knapp. A. E. Pierce, Eau Claire, 2nd vice pres. and gen. mgr.

Transmission Line—Ia., Elkader—Schmidt Bros. Co. granted franchise to install transmission line in Clayton and Delaware Cos., including extensions to Boardman, Cox Creek, Volga and Mallory Twps. and towns of Littleport, Garber, Elkport and Colesburg.

Dock—Minn., Duluth—Clarkson Coal Dock Co., Garfield Ave., will construct addition and improve coal docks. About $10,000.

Transmission Line—Neb., Norfolk—Nebraska Gas and Electric Co., Norfolk, controlled by Continental Gas and Electric Corp., Cuyahoga Bldg., Cleveland, plans line from Norfolk to Hadar. W. C. Ross, Woodman of the World Bldg., Omaha, gen. mgr.

Park Improvements—Mo., St. Louis—City plans to spend $100,000. E. R. Kinsey, pres. bd. pub. ser.

Transmission Line—Wash., Long Lake—Washington Water Power Co., Spokane, plans high tension transmission line from power plant to Northport, 90-mi., to supply electricity to mines and other industries. C. F. Uhden, 825 Trent St., Spokane, ch. engr.

Wharves, etc.—Cal., Hueneme—McCroskey Packing Co. plans cannery, wharves affording 1-mi. dockage, 2 jettles, 1200- and 800-ft. [illegible] dredging canal and an inner harbor. Company made application to War Dept. for permission to convert 60-acre slough into harbor around which company owns 160 acres. About $250,000. F. J. Cooper, constr. supt.

Dam—Cal., San Diego—See "Reinforced Concrete."

Seawall—Cal., Santa Barbara—See "Streets and Roads."

Tunnel—Que., Dorval—See "Reinforced Concrete."

Bids Desired

Station Finish—N. Y., Brooklyn—Until May 16 by Pub. Ser. Comn. for 1st Dist., 120 B'way, Manhattan, station finish for 9 station on parts of B'way., 4th Ave. and Eastern Pkwy. Rapid Transit R.R.

Heating Work—N. Y., Hudson—Until May 18 by A. W. Allen, pres., bd. mgrs., New York State Training School for Girls; advertised in this issue.

Heating Work—N. Y., Newark—Until May 18 by A. W. Beaven, pres. bd. mgrs., New York State Custodial Asylum for Feeble-minded Women; advertised in this issue.

Inspection Sheds—N. Y., New York—See "Structural Steel."

Park Work—Pa., Phila.—Until May 11, by Dept. Pub. Wks. constructing last section of League Island Park, involving brick and Indiana limestone boat house, 50 x 150-ft., granite approaches and tile floor; bandstand, overlook and comfort stations all of granite. About $120,000. R. E. White, Pennsylvania Bldg., archt.

Retaining Walls—O., Cincinnati—Until May 18 by F. E. Wesselmann, pres., bd. co. comrs., at Bridge No. 31, Wesselmann Rd., and at Culvert No. 46½, Green and Miami Twps.

Swimming Pool—O., Cincinnati—See "Reinforced Concrete."

Prices and Contracts Awarded

(★Indicates award of contract)

★Park Entrance—Mass., Boston—Park and Recreation Dept., 33 Beacon St., let contract at Franklin Park, to Cambridge Cement Stone Co., 156 Lincoln St., Boston, $21,850.

★Tunnels, Etc.—Conn., New Haven—See "Reinforced Concrete."

★Elimination Grade Crossings—N. Y., Buffalo—Grade Crossings Comn. let contract, superstructure, on Louisiana St. over tracks of Erie R.R., to Peckham Constr. Co., Buffalo. Noted Apr. 26.

★Pier—Va., Hampton—Hampton & Langley Ry. let contract 1900 ft. over Black River to Tennis Constr. Co., Hampton.

Bulkhead—N. Y., New York—See "Reinforced Concrete."

★Station Finish—N. Y., New York—Pub. Ser. Comn. for 1st Dist., let contract station finish on portion Park Pl., William and Clark St. subway to J. B. Roberts & Co., 3 West 29th St., $139,919. Noted Apr. 26.

★Pier—N. J., Stone Harbor—Council let contract to W. L. Turpin & Sons, Stoneharbor, $16,025.

★Flood Prevention—Pa., Lebanon—City let contract 1st sect. flood prevention system to Mangan & Pugh, Gregory Bldg., Pottsville, $124,000. Noted Apr. 5.

★Elimination Grade Crossings—Ind., Ft. Wayne—Bd. Pub. Wks. let contract city's portion of track elevation at Lafayette St. to Moellering Constr. Co., Murray St.

Monument—Tex., Corsicana—(Official)—Corsicana Volunteer Fire Dept. received low bid, Apr. 25, completion "Firemen's Monuument" from Webb & Bee.

The Bath Portland Cement Co., has moved its offices to 8 West 40th St., New York City.

The business of **Hatzel & Buehler**, 373 4th Ave., New York City, has been incorporated. The new company is comprised of John C. Hatzel, Allan Coggeshall, Harry J. Kurras and Charles Metzger.

Carpenter Constr. Co., Ford Bldg., Detroit, Mich.

F. R. Schoen, who has represented the American Hoist & Derrick Co. in the Seattle territory for the past several years, recently severed his connections with that company and become a member of the Burback Machinery Co., of Seattle.

The C. F. Pease Co., of Chicago, are now represented in Seattle, Wash., by Chas. E. Barteau, 801 Union St., formerly president and sales manager of the Pacific Auto Supply Co., of Seattle.